(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 14 December 2000 (14.12.2000)

PCT

(10) International Publication Number WO 00/75343 A2

(51) International Patent Classification7: 15/82, 9/10, C12P 7/64

C12N 15/54.

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(84) Designated States (regional): European patent (AT. BE. CH. CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC.

(21) International Application Number: PCT/US00/16151

(81) Designated States (national): CA, JP, MX.

NL, PT, SE).

upon receipt of that report.

Published:

(22) International Filing Date:

9 June 2000 (09.06.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/138,308

9 June 1999 (09.06.1999) US

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(0).00.17777

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Without international search report and to be republished

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(54) Title: ENGINEERING β-KETOACYL ACP SYNTHASE FOR NOVEL SUBSTRATE SPECIFICITY

(57) Abstract: Methods of altering substrate specificity of beta-ketoacyl-ACP synthase, and engineered beta-ketoacyl-ACP synthases so produced are provided. DNA sequences and constructs for expression of engineered beta-ketoacyl-ACP synthases, as well as the novel beta-ketoacyl-ACP synthases produced therefrom are also provided. Such DNA sequences may be used for expression of the engineered beta-ketoacyl-ACP synthases in host cells, particularly seed cells of oilseed crop plants, for the modification of fatty acid composition.

ENGINEERING β -KETOACYL ACP SYNTHASE FOR NOVEL SUBSTRATE SPECIFICITY

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INTRODUCTION

This application claims the benefit of U.S. Provisional Application Number 60/138,308 filed June 9, 1999.

10 Technical Field

The present invention is directed to proteins, nucleic acid sequences and constructs, and methods related thereto.

Background

15 Fatty acids are organic acids having a hydrocarbon chain of from about 4 to 24 carbons. Many different kinds of fatty acids are known which differ from each other in chain length, and in the presence, number and position of double bonds. In cells, fatty acids typically exist in covalently bound forms, the carboxyl portion being referred to as a fatty acyl group. The chain length and degree of saturation of these molecules is often depicted by the formula CX:Y, where "X" indicates number of carbons and "Y" indicates number of double bonds.

The production of fatty acids in plants begins in the plastid with the reaction between acetyl-CoA and malonyl-ACP to produce acetoacetyl-ACP catalyzed by the enzyme, ß-ketoacyl-ACP synthase III. Elongation of acetyl-ACP to 16- and 18- carbon fatty acids involves the following cycle of reactions: condensation with a two-carbon unit from malonyl-ACP to form a ß-ketoacyl-ACP (ß-ketoacyl-ACP synthase), reduction of the keto-function to an alcohol (ß-ketoacyl-ACP reductase), dehydration to form an enoyl-ACP (ß-hydroxyacyl-ACP dehydrase), and finally reduction of the enoyl-ACP to form the elongated saturated acyl-ACP (enoyl-ACP reductase). ß-ketoacyl-ACP synthase I, catalyzes elongation up to palmitoyl-ACP (C16:0), whereas ß-ketoacyl-ACP synthase II catalyzes the final elongation to stearoyl-ACP (C18:0). The longest chain fatty acids produced by the FAS are typically 18 carbons long. Additional

biochemical steps in the cell produce specific fatty acid constituents, for example through desaturation and elongation.

 β -ketoacyl synthases, condensing enzymes, comprise a structurally and functionally related family that play critical roles in the biosynthesis of a variety of natural products, including fatty acids, and the polyketide precursors leading to antibiotics, toxins, and other secondary metabolites. β -ketoacyl synthases catalyze carbon-carbon bond forming reactions by condenisng a variety of acyl chain precursors with an elongating carbon source, usually malonyl or methyl malonyl moieties, that are covalently attached through a thioester linkage to an acyl carrier protein. Condensing enzymes can be part of multienzyme complexes, domains of large, multifunctional polypeptide chains as the mammalian fatty acid synthase, or single enzymes as the β -ketoacyl synthases in plants and most bacteria.

Condensing enzymes have been identified with properties subject to exploitation in the areas of plant oil modification, polyketide engineering, and ultimately design anti-cancer and anti-tuberculosis agents. One of the molecular targets of isoniazid, which is widely used in the treatment of tuberculosis, is KAS. Cerulinin, a mycotoxin produced by the fungus Cephalosporium caerulens, acts as a potent inhibitor of KAS by covalent modification of the active cysteine thiol. Condensing enzymes from many other pathways and sources have all been shown to be inactivated by this antibiotic with the exception of the synthase from C. caerulens and KASIII, the isozyme responsible for the initial condensation of malonyl-ACP with acetyl-CoA in plant and bacterial fatty acid biosynthesis. Inhibition of the KAS domain of fatty acid synthase by cerulinin is selectively cytotoxic to certain cancer cells.

SUMMARY OF THE INVENTION

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The present invention is directed to β -ketoacyl ACP synthase (KAS), and in particular to engineered KAS polypeptides and polynucleotides encoding engineered KAS proteins having a modified substrate specificity with respect to the native (also referred to herein as wild-type) KAS protein. The engineered polypeptides and polynucleotides of the present invention include those derived from plant and bacterial sources.

In another aspect of the invention polynucleotides encoding engineered polypeptides, particularly, polynucleotides that encode a KAS protein with a modified substrate specificity with respect to the native KAS protein, are provided.

In a further aspect the invention relates to oligonucleotides derived from the engineered KAS proteins and oligonucleotides which include partial or complete engineered KAS encoding sequences.

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It is also an aspect of the present invention to provide recombinant DNA constructs which can be used for transcription or transcription and translation (expression) of an engineered KAS protein having an altered substrate specificity with respect to the native KAS protein. In particular, constructs are provided which are capable of transcription or transcription and translation in host cells. Particularly preferred constructs are those capable of transcription or transcription and translation in plant cells.

In another aspect of the present invention, methods are provided for production of engineered KAS proteins having a modified substrate specificity with respect to the native KAS in a host cell or progeny thereof. In particular, host cells are transformed or transfected with a DNA construct which can be used for transcription or transcription and translation of an engineered KAS. The recombinant cells which contain engineered KAS are also part of the present invention.

In a further aspect, the present invention relates to methods of using the engineered polynucleotide and polypeptide sequences of the present invention to modify the fatty acid composition in a host cell, as well as to modify the composition and/or structure of triglyceride molecules, particularly in seed oil of oilseed crops. Plant cells having such a modified triglyceride content are also contemplated herein.

The modified plants, seeds and oils obtained by the expression of the plant engineered KAS proteins are also considered part of the invention.

DESCRIPTION OF THE FIGURES

Figure 1 provides the coordinates of the crystal structure of the *E. coli* KAS protein. The first column provides the Type of atom (N=Nitrogen, O=oxygen, C=Carbon, CA= alpha carbon, CB=beta carbon, CG= gamma carbon, CD= delta carbon, CE= epsilon carbon, NZ= zeta nitrogen, NH= amino group), the second column provides the amino acid residue type (three letter abbreviation), the third column provides the subunit in which the amino acid is

located, the forth column provides the amino acid position in the protein sequence base don the mature unprocessed protein, columns seven through nine provide the x, y and z coordinates, respectively, of the three dimensional location of the respective atom in the crystal structure.

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Figure 2 provides the profile of the crystal structure of the *E. coli* KAS-cerulenin complex. The first column provides the Type of atom (N=Nitrogen, O=oxygen, C=Carbon, CA= alpha carbon, CB=beta carbon, CG= gamma carbon, CD= delta carbon, CE= epsilon carbon, NZ= zeta nitrogen, NH= amino group), the second column provides the amino acid residue type (three letter abbreviation), the third column provides the subunit in which the amino acid is located, the forth column provides the amino acid position in the protein sequence base don the mature unprocessed protein, columns seven through nine provide the x, y and z coordinates, respectively, of the three dimensional location of the respective atom in the crystal structure.

Figure 3 provides the effects of KAS II mutations on the fatty acid composition of E.

15 coli.

Figure 4 shows that mutations I108F, I108L and A193M all cause significant reduction in the activity of KAS II on 8:0-ACP as compared to 6:0-ACP (38, 31 and 12 fold reductions respectively), without significantly reducing the activity on 6:0-ACP.

Figure 5 shows that the combined mutations at I108 and A193 have the effect of reducing the activity of KAS II on 6:0-ACP substrates.

Figure 6 shows that the combined effect of two or more mutations had a greater effect on the activity with acyl-ACPs 8:0 and longer (14:0) substrates.

Figure 7 shows the complete list of mutations that were generated.

Figure 8 provides the structure of the Cpu KAS I homodimer

Figure 9 provides the structure of the Cpu KAS IV homodimer

Figure 10 provides the structure of the Cpu KAS IV Cpu KAS IV heterodimer.

Figure 11 provides the sequence differences in the hydrophobic pocket of the $E.\ coli$ KASII and $C.\ pu$ KASIV.

Figure 12 provides an amino acid sequence alignment of KAS protein sequences from plant (Arabidopsis, Brassica, Cuphea hookeriana and pullcherima, Hordeum, Riccinus), bacterial (E. coli, streptococcus, tuberculosis), mammalian (rat, mouse) and others (C.elegans).

Figure 13 provides a bar graph representing the results of fatty acid analysis of seeds from transformed *Arabidopsis* lines containing pCGN11058, pCGN11062, pCGN11041, or nontransformed control lines (AT002-44). For each line, bars represent, from left to right, C12:0, C14:0, C16:0, C16:1, C18:0, C18:1 (delta 9), C18:1 (delta 11), C18:2, C18:3, C20:0, C20:1 (delta 11), C20:1 (delta 13), C20:2, C20:3, C22:0, C22:1, C22:2, C22:3, C24:0, and C24:1 fatty acids.

Figure 14 provides the nucleotide sequence of the plastid targeting sequence from Cuphea hookeriana KASII-7.

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DETAILED DESCRIPTION OF THE INVENTION

In accordance with the subject invention, engineered nucleotide sequences are provided which are capable of coding sequences of amino acids, such as, a protein, polypeptide or peptide. The engineered nucleotide sequences encode β-ketoacyl-ACP synthase (KAS) proteins with a modified substrate specificity compared to the native KAS protein (also referred to herein as the wild-type KAS protein) under enzyme reaction conditions. Such sequences are referred to herein as engineered β-ketoacyl-ACP synthase (also referred to as engineered KAS) proteins. The engineered nucleic acid sequences find use in the preparation of constructs to direct their expression in a host cell. Furthermore, the engineered nucleic acid sequences find use in the preparation of plant expression constructs to alter the fatty acid composition of a plant cell. By "enzyme reactive conditions" is meant that any necessary conditions are available in an environment (for example, such factors as temperature, pH, lack of inhibiting substances) which will permit the enzyme to function.

An engineered β -ketoacyl-ACP synthase nucleic acid sequence of this invention includes any nucleic acid sequence coding a β -ketoacyl-ACP synthase having altered substrate specificity relative to the native KAS in a host cell, includign but not limited to, in vivo, or in a cell-like environment, for example, in vitro. By altered, or modified, substrate specificity is meant an alteration in the acyl-ACP substrates elongated by the KAS enzyme or an alteration in the elongator molecule used by the KAS to elongate the acyl-ACP relative to the native or unaltered KAS protein. An alteration in the acyl-ACP substrate elongated by the KAS enzymes includes, but is not limited to, elongation of an acyl-ACP substrate not elongated by the wild-type KAS, the inability to elongate an acyl-ACP substrate elongated by

the wild-type KAS, and a preference for elongating acyl-ACP substrates not normally preferred by the wild-type KAS. An alteration in the elongator molecule used by the engineered KAS for the elongation of the acyl-ACP substrate includes, but is not limited to, methyl-malonyl ACP for the production of branched chain fatty acids.

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A first aspect of the present invention relates to engineered β-ketoacyl-ACP synthase polypeptides. In particular, engineered KAS II polypeptides are provided. Preferred peptides include those found in the hydrophobic fatty acid/cerulenin binding pocket of the KAS protein. Such polypeptides include the engineered polypeptides set forth in the Sequence Listing, as well as polypeptides and fragments thereof, particularly those polypeptides which exhibit a modified substrate specificity with respect to the wild-type KAS polypeptide. Particularly preferred polypeptides include those having engineered amino acid residues 105 to 120, 130-140, 190-200 and 340-400. Most preferred polypeptides include those having engineered amino acid residues I108A, I108F, I108G, I108L, L111A, I114A, F133A, V134A, V134G, I138A, I138G, A162G, A193G, A193I, A193M, L197A, F202L, F202I, F202G, L342A, and L342G. Amino acid positions, as used herein, refer to the amino acid residue position in the active or processed protein.

Engineered β -ketoacyl-ACP synthases can be prepared by random (via chemical mutagenesis or DNA shuffling) or specific mutagenesis of a β -ketoacyl-ACP synthase encoding sequence to provide for one or more amino acid substitutions in the translated amino acid sequence. Alternatively, an engineered β -ketoacyl-ACP synthase can be prepared by domain swapping between related β -ketoacyl-ACP synthases, wherein extensive regions of the native β -ketoacyl-ACP synthase encoding sequence are replaced with the corresponding region from a different β -ketoacyl-ACP synthase.

Altered substrate specificities of an engineered β -ketoacyl-ACP synthase can be reflected by the elongation of an acyl-ACP substrates of particular chain length fatty acyl-ACP groups which are not elongated by the native β -ketoacyl-ACP synthase enzyme. In addition, altered substrate specificities can be reflected by the in ability to elongate an acyl-ACP substrate of particular chain length fatty acyl-ACP groups which are not normally preferred by the native β -ketoacyl-ACP synthase enzyme. The newly recognized acyl-ACP substrate can differ from native substrates of the enzyme in various ways, such as by having a shorter or longer carbon chain length (usually reflected by the addition or deletion of one or more 2-carbon units), as well as by degrees of unsaturation.

Another aspect of the present invention relates to engineered β -ketoacyl-ACP synthase polynucleotides. In particular, engineered β -ketoacyl-ACP synthase II polynucleotides are provided. The polynucleotide sequences of the present invention include engineered polynucleotides that encode the polypeptides of the invention having a deduced amino acid sequence selected from the group of sequences set forth in the Sequence Listing.

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The invention provides a polynucleotide sequence identical over its entire length to each coding sequence as set forth in the Sequence Listing. The invention also provides the coding sequence for the mature polypeptide or a fragment thereof, as well as the coding sequence for the mature engineered polypeptide or a fragment thereof in a reading frame with other coding sequences, such as those encoding a leader or secretory sequence, a pre-, pro-, or prepro- protein sequence. The polynucleotide can also include non-coding sequences, including for example, but not limited to, non-coding 5' and 3' sequences, such as the transcribed, untranslated sequences, termination signals, ribosome binding sites, sequences that stabilize mRNA, introns, polyadenylation signals, and additional coding sequence that encodes additional amino acids. For example, a marker sequence can be included to facilitate the purification of the fused polypeptide. Polynucleotides of the present invention also include polynucleotides comprising a structural gene and the naturally associated sequences that control gene expression.

As described herein, analysis of the KAS IL/cerulinin crystal structure complex is 20 performed using modeling software to produce a profile of the complex, as well as the KAS II protein alone. Based on comparisons of the two profiles, amino acid residues are identified, which when mutagenized, alter the fatty acyl substrate specificities. As demonstrated herein, engineering of the nucleic acid sequence to modify the amino acid sequence in particular regions of the KAS protein effectively modify the substrate specificity of the engineered KAS. Particular ranges for the engineering of the protein include amino acid residues 105 to 120, 130-140, 190-200 and 340-345. Particularly, engineering of residues 108, 111, 114, 133, 193 and 197 can alter the length of the fatty acids synthesized by the engineered KAS II protein. More particularly, engineering of residues 108, 111, 114, 133, 193 and 197 with variously sized hydrophobic residues will alter the length of the fatty acids synthesized by the engineered KAS II protein. Furthermore, engineering the amino acid residue at position 400 can also have an effect on the substrate specificity.

As demonstrated more fully in the following examples, the acyl-ACP substrate specificity of b-ketoacyl-ACP synthases may be modified by various amino acid changes to the protein sequence, such as amino acid substitutions, insertions or deletions in the mature protein portion of the b-ketoacyl-ACP synthases. Modified substrate specificity can be detected by expression of the engineered b-ketoacyl-ACP synthase s in *E. coli* and assaying to detect enzyme activity or by using purified protein in *in vitro* assays.

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Modified substrate specificity can be indicted by a shift in acyl-ACP substrate preference such that the engineered b-ketoacyl-ACP synthase is newly capable of utilizing a substrate not recognized by the native b-ketoacyl-ACP synthase. The newly recognized substrate can vary from substrates of the native enzyme by carbon chain length and/or degree of saturation of the fatty acyl portion of the substrate. Additionally, modified substrate specificity can be reflected by a shift in the relative b-ketoacyl-ACP synthase activity on two or more substrates of the native b-ketoacyl-ACP synthase such that an engineered b-ketoacyl-ACP synthase exhibits a different order of preference for the acyl-ACP substrates.

Furthermore, provided herein are KAS proteins with an altered elongator molecule preference. For example, by widening the hydrophobic fatty acid binding different elongator molecules, other than Malonyl-ACP, can be utilized by the KAS protein. For example Methyl-malonyl-ACP can be utilized by the engineered KAS resulting in the synthesis of branched chained fatty acid. The mutations that lengthen the pocket may to some degree also widen it, in addition mutations A193G, I108G, L342A or G, V134A or G,F202L,I or G may well cause widening of the pocket sufficiently to allow Methyl-malonyl-ACP to be accepted as an elongator.

As described in more detail herein, alterations in the nucleic acid sequence of the *E. coli* KAS II, particularly, I108F, I108L, A193I, A193M, as well as combinations thereof, are prepared for the production of shorter chain length fatty acids. Furthermore, alterations of I108A, L111A, I114A, F133A, L197A, and combinations thereof, are prepared for increasing the length of fatty acids produced by the host cell.

Thus, as the result of modifications to the substrate specificity of b-ketoacyl-ACP synthases, it can be seen that the relative amounts of the fatty acids produced in a cell where various substrates are available for hydrolysis may be altered. Furthermore, molecules which are formed from available free fatty acids, such as plant seed triglycerides, may also be altered

as a result of expression of engineered b-ketoacyl-ACP synthases having altered substrate specificities.

It is anticipated that the ranges of mutations provided herein can also be engineered in plant KAS proteins as well as to other polyketide synthases. Such plant KAS proteins are known in the art, and are described for example in PCT Publication WO 98/46776, and in U.S. Patent Number 5,475,099, the entireties of which are incorporated herein by reference.

Plant Constructs and Methods of Use

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Of particular interest is the use of the nucleotide sequences, or polynucleotides, in recombinant DNA constructs to direct the transcription or transcription and translation (expression) of the engineered KAS sequences of the present invention in a host plant cell. The expression constructs generally comprise a promoter functional in a host plant cell operably linked to a nucleic acid sequence encoding a engineered KAS of the present invention and a transcriptional termination region functional in a host plant cell.

Those skilled in the art will recognize that there are a number of promoters which are functional in plant cells, and have been described in the literature. Chloroplast and plastid specific promoters, chloroplast or plastid functional promoters, and chloroplast or plastid operable promoters are also envisioned.

One set of promoters are constitutive promoters such as the CaMV35S or FMV35S promoters that yield high levels of expression in most plant organs. Enhanced or duplicated versions of the CaMV35S and FMV35S promoters are useful in the practice of this invention (Odell, et al. (1985) Nature 313:810-812; Rogers, U.S. Patent Number 5,378, 619). In addition, it may also be preferred to bring about expression of the engineered KAS in specific tissues of the plant, such as leaf, stem, root, tuber, seed, fruit, etc., and the promoter chosen should have the desired tissue and developmental specificity.

Of particular interest is the expression of the nucleic acid sequences of the present invention from transcription initiation regions which are preferentially expressed in a plant seed tissue. Examples of such seed preferential transcription initiation sequences include those sequences derived from sequences encoding plant storage protein genes or from genes involved in fatty acid biosynthesis in oilseeds. Examples of such promoters include the 5' regulatory regions from such genes as napin (Kridl et al., Seed Sci. Res. 1:209:219 (1991)),

phaseolin, zein, soybean trypsin inhibitor, ACP, stearoyl-ACP desaturase, soybean α ' subunit of β -conglycinin (soy 7s, (Chen *et al.*, *Proc. Natl. Acad. Sci.*, 83:8560-8564 (1986))) and oleosin.

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It may be advantageous to direct the localization of proteins to a particular subcellular compartment, for example, to the mitochondrion, endoplasmic reticulum, vacuoles, chloroplast or other plastidic compartment. For example, where the genes of interest of the present invention will be targeted to plastids, such as chloroplasts, for expression, the constructs will also employ the use of sequences to direct the gene to the plastid. Such sequences are referred to herein as chloroplast transit peptides (CTP) or plastid transit peptides (PTP). In this manner, where the protein of interest is not directly inserted into the plastid, the expression construct will additionally contain a gene encoding a transit peptide to direct the protein of interest to the plastid. The chloroplast transit peptides may be derived from the gene of interest, or may be derived from a heterologous sequence having a CTP. Such transit peptides are known in the art. See, for example, Von Heijne et al. (1991) Plant Mol. Biol. Rep. 9:104-126; Clark et al. (1989) J. Biol. Chem. 264:17544-17550; della-Cioppa et al. (1987) Plant Physiol. 84:965-968; Romer et al. (1993) Biochem. Biophys. Res Commun. 196:1414-1421; and, Shah et al. (1986) Science 233:478-481. Additional transit peptides for the translocation of the engineered KAS protein to the endoplasmic reticulum (ER), or vacuole may also find use in the constructs of the present invention.

Depending upon the intended use, additional constructs can be employed containing the nucleic acid sequence which provides for the suppression of the host cell's endogenous KAS protein. Where antisense inhibition of a host cells native KAS protein is desired, the entire wild-type KAS sequence is not required.

The skilled artisan will recognize that there are various methods for the inhibition of expression of endogenous sequences in a host cell. Such methods include, but are not limited to antisense suppression (Smith, et al. (1988) Nature 334:724-726), co-suppression (Napoli, et al. (1989) Plant Cell 2:279-289), ribozymes (PCT Publication WO 97/10328), and combinations of sense and antisense Waterhouse, et al. (1998) Proc. Natl. Acad. Sci. USA 95:13959-13964. Methods for the suppression of endogenous sequences in a host cell typically employ the transcription or transcription and translation of at least a portion of the sequence to be suppressed. Such sequences may be homologous to coding as well as non-coding regions of the endogenous sequence.

Regulatory transcript termination regions may be provided in plant expression constructs of this invention as well. Transcript termination regions may be provided by the DNA sequence encoding the wild-type KAS or a convenient transcription termination region derived from a different gene source, for example, the transcript termination region which is naturally associated with the transcript initiation region. The skilled artisan will recognize that any convenient transcript termination region which is capable of terminating transcription in a plant cell may be employed in the constructs of the present invention.

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Alternatively, constructs may be prepared to direct the expression of the engineered KAS sequences directly from the host plant cell plastid. Such constructs and methods are known in the art and are generally described, for example, in Svab, et al. (1990) Proc. Natl. Acad. Sci. USA 87:8526-8530 and Svab and Maliga (1993) Proc. Natl. Acad. Sci. USA 90:913-917 and in U.S. Patent Number 5,693,507.

A plant cell, tissue, organ, or plant into which the recombinant DNA constructs containing the expression constructs have been introduced is considered transformed, transfected, or transgenic. A transgenic or transformed cell or plant also includes progeny of the cell or plant and progeny produced from a breeding program employing such a transgenic plant as a parent in a cross and exhibiting an altered phenotype resulting from the presence of a engineered KAS nucleic acid sequence.

Plant expression or transcription constructs having an engineered KAS as the DNA sequence of interest for increased or decreased expression thereof may be employed with a wide variety of plant life, particularly, plant life involved in the production of vegetable oils for edible and industrial uses. Most especially preferred are temperate oilseed crops. Plants of interest include, but are not limited to, rapeseed (Canola and High Erucic Acid varieties), sunflower, safflower, cotton, soybean, peanut, coconut and oil palms, and corn. Depending on the method for introducing the recombinant constructs into the host cell, other DNA sequences may be required. Importantly, this invention is applicable to dicotyledyons and monocotyledons species alike and will be readily applicable to new and/or improved transformation and regulation techniques.

Of particular interest, is the use of engineered KAS constructs in plants which have been genetically engineered to produce a particular fatty acid in the plant seed oil, where TAG in the seeds of nonengineered plants of the engineered species, do not naturally contain that particular fatty acid.

The engineered KAS constructs of the present invention can also be used to provide a means for the production of plants having resistance to plant pathogens. Engineered KAS constructs providing for an increased production of particular fatty acids involved in the biosynthesis of pathogen response signals or inhibitors. For example, engineered KAS constructs providing for the increased production of C:8 fatty acids allows for the production of transgenic plants having an increased tolerance to fungal pathogens.

It is contemplated that the gene sequences may be synthesized, either completely or in part, especially where it is desirable to provide plant-preferred sequences. Thus, all or a portion of the desired structural gene (that portion of the gene which encodes the engineered protein) may be synthesized using codons preferred by a selected host. Host-preferred codons may be determined, for example, from the codons used most frequently in the proteins expressed in a desired host species.

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Once the desired engineered KAS nucleic acid sequence is obtained, it may be manipulated in a variety of ways. Where the sequence involves non-coding flanking regions, the flanking regions may be subjected to resection, mutagenesis, etc. Thus, transitions, transversions, deletions, and insertions may be performed on the naturally occurring sequence. In addition, all or part of the sequence may be synthesized. In the structural gene, one or more codons may be modified to provide for a modified amino acid sequence, or one or more codon mutations may be introduced to provide for a convenient restriction site or other purpose involved with construction or expression. The structural gene may be further modified by employing synthetic adapters, linkers to introduce one or more convenient restriction sites, or the like.

The nucleic acid or amino acid sequences encoding an engineered KAS of this invention may be combined with other non-native, or "heterologous", sequences in a variety of ways. By "heterologous" sequences is meant any sequence which is not naturally found joined to the engineered KAS, including, for example, combinations of nucleic acid sequences from the same plant which are not naturally found joined together.

The DNA sequence encoding an engineered KAS of this invention may be employed in conjunction with all or part of the gene sequences normally associated with the wild-type KAS. In its component parts, a DNA sequence encoding engineered KAS is combined in a DNA construct having, in the 5' to 3' direction of transcription, a transcription initiation

control region capable of promoting transcription and translation in a host cell, the DNA sequence encoding engineered KAS and a transcription and translation termination region.

Potential host cells include both prokaryotic and eukaryotic cells. A host cell may be unicellular or found in a multicellular differentiated or undifferentiated organism depending upon the intended use. Cells of this invention may be distinguished by having an engineered KAS foreign to the wild-type cell present therein, for example, by having a recombinant nucleic acid construct encoding an engineered KAS therein.

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The methods used for the transformation of the host plant cell are not critical to the present invention. The transformation of the plant is preferably permanent, i.e. by integration of the introduced expression constructs into the host plant genome, so that the introduced constructs are passed onto successive plant generations. The skilled artisan will recognize that a wide variety of transformation techniques exist in the art, and new techniques are continually becoming available. Any technique that is suitable for the target host plant can be employed within the scope of the present invention. For example, the constructs can be introduced in a variety of forms including, but not limited to as a strand of DNA, in a plasmid, or in an artificial chromosome. The introduction of the constructs into the target plant cells can be accomplished by a variety of techniques, including, but not limited to calcium-phosphate-DNA co-precipitation, electroporation, microinjection, Agrobacterium infection, liposomes or microprojectile transformation. The skilled artisan can refer to the literature for details and select suitable techniques for use in the methods of the present invention.

Normally, included with the DNA construct will be a structural gene having the necessary regulatory regions for expression in a host and providing for selection of transformant cells. The gene may provide for resistance to a cytotoxic agent, e.g. antibiotic, heavy metal, toxin, etc., complementation providing prototrophy to an auxotrophic host, viral immunity or the like. Depending upon the number of different host species the expression construct or components thereof are introduced, one or more markers may be employed, where different conditions for selection are used for the different hosts.

Where Agrobacterium is used for plant cell transformation, a vector may be used which may be introduced into the Agrobacterium host for homologous recombination with T-DNA or the Ti- or Ri-plasmid present in the Agrobacterium host. The Ti- or Ri-plasmid containing the T-DNA for recombination may be armed (capable of causing gall formation)

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or disarmed (incapable of causing gall formation), the latter being permissible, so long as the vir genes are present in the transformed Agrobacterium host. The armed plasmid can give a mixture of normal plant cells and gall.

In some instances where Agrobacterium is used as the vehicle for transforming host plant cells, the expression or transcription construct bordered by the T-DNA border region(s) will be inserted into a broad host range vector capable of replication in E. coli and Agrobacterium, there being broad host range vectors described in the literature. Commonly used is pRK2 or derivatives thereof. See, for example, Ditta, et al., (Proc. Nat. Acad. Sci., U.S.A. (1980) 77:7347-7351) and EPA 0 120 515, which are incorporated herein by reference. Alternatively, one may insert the sequences to be expressed in plant cells into a vector containing separate replication sequences, one of which stabilizes the vector in E. coli, and the other in Agrobacterium. See, for example, McBride and Summerfelt (Plant Mol. Biol. (1990) 14:269-276), wherein the pRiHRI (Jouanin, et al., Mol. Gen. Genet. (1985) 201:370-374) origin of replication is utilized and provides for added stability of the plant expression vectors in host Agrobacterium cells.

Included with the expression construct and the T-DNA will be one or more markers, which allow for selection of transformed Agrobacterium and transformed plant cells. A number of markers have been developed for use with plant cells, such as resistance to chloramphenicol, kanamycin, the aminoglycoside G418, hygromycin, or the like. The particular marker employed is not essential to this invention, one or another marker being preferred depending on the particular host and the manner of construction.

For transformation of plant cells using Agrobacterium, explants may be combined and incubated with the transformed Agrobacterium for sufficient time for transformation, the bacteria killed, and the plant cells cultured in an appropriate selective medium. Once callus forms, shoot formation can be encouraged by employing the appropriate plant hormones in accordance with known methods and the shoots transferred to rooting medium for regeneration of plants. The plants may then be grown to seed and the seed used to establish repetitive generations and for isolation of vegetable oils.

There are several possible ways to obtain the plant cells of this invention which contain multiple expression constructs. Any means for producing a plant comprising a construct having a DNA sequence encoding the engineered KAS of the present invention, and at least one other construct having another DNA sequence encoding an enzyme are

encompassed by the present invention. For example, the expression construct can be used to transform a plant at the same time as the second construct either by inclusion of both expression constructs in a single transformation vector or by using separate vectors, each of which express desired genes. The second construct can be introduced into a plant which has already been transformed with the engineered KAS expression construct, or alternatively, transformed plants, one expressing the engineered KAS construct and one expressing the second construct, can be crossed to bring the constructs together in the same plant.

Other Constructs and Methods of Use

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The invention also relates to vectors that include a polynucleotide or polynucleotides of the invention, host cells that are genetically engineered with vectors of the invention and the production of polypeptides of the invention by recombinant techniques. Cell free translation systems can be employed to produce such protein using RNAs derived from the DNA constructs of the invention.

For recombinant production, host cells can be genetically engineered to incorporate expression systems or portions thereof or polynucleotides of the present invention.

Introduction of a polynucleotide into a host cell can be effected by methods described in many standard laboratory manuals, such as Davis et al., Basic Methods in Molecular Biology, (1986) and Sambrook et al, Molecular Cloning: A Laboratory Manual, 2nd Edition, Cold

Spring Harbor Laboratory Press, Cold Spring Harbor NY (1989). Such methods include, but are not limited to, calcium phosphate transfection, DEAE dextran mediated transfection, transvection, microinjection, cationic lipid-mediated transfection, electroporation, transduction, scrape loading ballistic introduction and infection.

Representative examples of appropriate hosts include bacterial cells, such as streptococci, staphylococci, enterococci, *E. coli*, streptomyces, and *Bacillus subtilis* cells; fungal cells, such as yeast cells and *Aspergillus* cells; insect cells, such as *Drosophila* S2 and *Spodoptera* Sf9 cells; animal cells such as CHO, COS, HeLa, C127, 3T3, BHK, 293 and Bowes melanoma cells; and plant cells as described above.

A variety of expression systems can be used to produce the polypeptides of the invention. Such vectors include, but are not limited to, chromosomal, episomal, and virus derived vectors, for example vectors from bacterial plasmids, bacteriophage, transposons, yeast episomes, insertion elements, yeast chromosomal elements, viruses such as

baculoviruses, papova viruses, such as SB40, vaccinia viruses, adenoviruses, fowl pox viruses, pseudorabies viruses and retroviruses, and vectors derived from combinations of such viruses, such as those derived from plasmid and bacteriophage genetic elements, such as cosmids and phagemids. The expression system constructs may contain control regions that regulate as well as engender expression. Generally, any system or vector which is suitable to maintain, propagate or express polynucleotides and/or to express a polypeptide in a host can be used for expression. The appropriate DNA sequence can be inserted into the chosen expression by any of a variety of well-known and routine techniques, such as, for example, those set forth in Sambrook et al, *Molecular Cloning, A Laboratory Manual*, (supra).

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Appropriate secretion signals, either homologous or heterologous, can be incorporated into the expressed polypeptide to allow the secretion of the protein into the lumen of the endoplasmic reticulum, the periplasmic space or the extracellular environment.

The polypeptides of the present invention can be recovered and purified from recombinant cell cultures by any of a number of well known methods, including, but not limited to, ammonium sulfate or ethanol precipitation, acid extraction, anion or cation exchange chromatography, phosphocellulose chromatography, hydrophobic interaction chromatography, affinity chromatography, hydroxylapatite chromatography, and lectin chromatography. It is most preferable to use high performance liquid chromatography (HPLC) for purification. Any of the well known techniques for protein refolding can be used to regenerate an active confirmation if the polypeptide is denatured during isolation and/or purification.

The engineered KAS polynucleotides and polypeptides of the present invention find use in a variety of applications.

The engineered KAS polynucleotides and polypeptides as well as the constructs

containing such engineered KAS polynucleotides and polypeptides find use in the alteration of fatty acid composition. Furthermore, the engineered KAS polynucleotides and polypeptides of the present invention find use in the production of particular fatty acid components. For example, an engineered KAS having a preference for elongating 6, 8, 10, and 12 carbon acyl-ACP substrates can be used in the production of medium chain fatty acids.

Such engineered KAS polynucleotides and polypeptides can also be used with additional sequences for the production of medium chain fatty acids, including, but not limited to, medium chain specific thioesterases (see for example USPN 5,512,482).

The present invention further provides methods for the engineering of polyketides and for the identification of molecules useful in cancer therapy, immunosuppressants, antiparasite, and antibiotic production.

Thus, the present invention permits the use of molecular design techniques to design, select and synthesize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site or substrate binding site of KAS, in whole or in part.

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A first approach enabled by this invention, is to use the structure coordinates of KAS to design compounds that bind to the enzyme and alter the physical properties of the compounds in different ways, e.g., solubility. For example, this invention enables the design of compounds that act as competitive inhibitors of the KAS enzyme by binding to, all or a portion of, the active site of KAS. This invention also enables the design of compounds that act as uncompetitive inhibitors of the KAS enzyme. These inhibitors may bind to, all or a portion of, the substrate binding site of KAS already bound to its substrate and may be more potent and less non-specific than known competitive inhibitors that compete only for the KAS active site. Similarly, non-competitive inhibitors that bind to and inhibit KAS whether or not it is bound to another chemical entity may be designed using the structure coordinates of KAS of this invention. Additionally, reversible and irreversible inhibitors can also be designed.

A second design approach is to probe KAS with molecules composed of a variety of different chemical entities to determine optimal sites for interaction between candidate ICE inhibitors and the enzyme. For example, high resolution X-ray diffraction data collected from crystals saturated with solvent allows the determination of where each type of solvent molecule sticks. Small molecules that bind tightly to those sites can then be designed and synthesized and tested for their KAS inhibitor activity. Travis, J., Science, 262, p. 1374 (1993).

This invention also enables the development of compounds that can isomerize to short-lived reaction intermediates in the chemical reaction of a substrate or other compound that binds to KAS, with KAS. Thus, the time-dependent analysis of structural changes in KAS during its interaction with other molecules is enabled. The reaction intermediates of KAS can also be deduced from the reaction product in co-complex with KAS. Such information is useful to design improved analogues of known KAS inhibitors or to design novel classes of inhibitors based on the reaction intermediates of the KAS enzyme and KAS-

inhibitor co-complex. This provides a novel route for designing KAS inhibitors with both high specificity and stability.

Another approach made possible and enabled by this invention, is to screen computationally small molecule data bases for chemical entities or compounds that can bind in whole, or in part, to the KAS enzyme. In this screening, the quality of fit of such entities or compounds to the binding site may be judged either by shape complementarity or by estimated interaction energy. Meng, E. C. et al., J. Comp. Chem., 13, pp. 505-524 (1992).

The invention now being generally described, it will be more readily understood by reference to the following examples which are included for purposes of illustration only and are not intended to limit the present invention.

EXAMPLES

Example 1: Determination of the KAS II-Cerulenin Complex Structure

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The KASII-cerulenin complex was prepared as described previously (Edwards, et al. (1997) FEBS Lett. 402:62-66). Crystals of the complex were grown by the hanging drop method. Droplets consisting of equal amounts of protein solution (6 mg ml⁻¹, 21 protein, 0.3 MNaCl, 25 mMTris, pH 8.0, 5 mMimidazole, and 10% v/v glycerol) and reservoir solution were equilibrated against 26% w/v polyethylene glycol 8000 and 0.1% v/v 2-mercaptoethanol in water. Data from two crystals were collected at 298 K at the synchrotron in MAX-lab, beamline I711, in Lund. The data was processed with DENZO (Otwinowski (1993) Proceedings of the Collaborative Computating Project 4 Study Weekend: Data Collection and Processing (Sawyer, L., Isaacs, N., and Bailey, S.S., eds.) pp 56-62, SERC Daresbury Laboratory, Warrington) and programs from the Collaborative Computating Project 4 Suite (Collaborative Computating Project 4 (1994) Acta Crystallagr. Sect. D Biol. Crystallogr. 50:760-763) and the two data sets were scaled together in SCALA (Eavans, (1993) Proceedings of the Collaborative Computating Project 4 Study Weekend: Data Collection and Processing (Sawyer, L., Isaacs, N., and Bailey, S.S., eds.) pp 56-62, SERC Daresbury Laboratory, Warrington). The crystals are very radiation-sensitive, but cannot be frozen in a cryostream. Due to non-isomorphism, data of only two crystals could be merged. The crystals of the complex have space group P3.21 with similar cell dimensions as the native enzyme.

The coordinates of the native enzyme (Huang, et al. (1998) EMBO J. 17:1183-1191) were used to calculate initial electron density maps with SIGMAA (Read (1986) Acta Crystallogr. 42:140-149). All data were used in the refinement; no sigma cutoff was applied. After an initial cycle of positional refinement, the model was rebuilt and a model of cerulenin was included. Further cycles of refinement of the complex were carried out using the program REFMAC (Murshudov, et al. (1997) Acta Crystallagr. Sect. D Biol. Crystallogr 53:240-253) including a bulk solvent correction, interspersed with inspection and correction of the model using O (Jones, et al. (1991) Acta Crystallagr. Sect. A 47:100-119), OOPS (Kleywegt, et al. (1996) Acta Crystallagr. Sect. D Biol. Crystallogr 52:829-832), and PROCHECK (Laskowski, et al. (1993) J. Appl. Crystallogr. 26:282-291). Structure comparisons were performed using O (Jones, et al. (1991) supra) with default parameters.

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The complex of KASII from E. coli with cerulenin crystallized in space group P3₁21 isomorphously with the native enzyme (Huang, et al.(1998) supra), and the crystal structure was determined to 2.65-Å resolution by difference Fourier methods. The final protein model after refinement (R-factor 5 0.213 and R_{∞} 5 0.270 with good stereochemistry) contains 411 out of the 412 residues of the subunit; no electron density for the N-terminal residue was found. The overall real-space correlation coefficient (Jones, et al. (1991) supra) is 0.92, and there is well defined electron density for the polypeptide chain except for some side chains on the molecular surface. The inhibitor molecule is well defined by the electron density.

However, there is weaker than average electron density for the amide group and no electron density for the last carbon atom of the hydrocarbon tail, indicating considerable flexibility for the terminal methyl group.

The overall structure of the KAS dimer is unchanged upon binding of cerulenin; the root mean square deviations for the 411 C α atoms of the subunit is 0.23 Å between the two structures. These differences are mainly localized in the active site, in particular in the loop comprising residues 398–401. The main differences in structure between the native enzyme and the cerulenin complex are in the conformation of the side chains of Phe-400 (which was anticipated already from the native structure) and of Ile-108, which have completely new rotamer conformations, and in the positions of the side chains of Cys-163, His-340, and Leu-342, which also have moved substantially. These conformational changes provide access for cerulenin to the active site cysteine and open a hydrophobic pocket for the hydrophobic tail of the inhibitor. From the initial $F_{\circ}2$ F_{\circ} electron density map these structural changes could be

readily seen as well as the binding site for the inhibitor). Cerulenin is bound covalently through its C2 carbon atom to the Cys-163 Sy atom. Its hydrocarbon tail fits in a hydrophobic pocket formed at the dimer interface. The structure of the adduct of cerulenin and cysteine, isolated by tryptic digestion of the cerulenin-fatty acid synthase complex, has been determined by NMR and mass spectroscopy (Funabashi, et al. (1989) J. Biochem.(Tokyo) 105:751-755). This study revealed that the inhibitor reacts at its C2-epoxide carbon with the SH group of cysteine and that cerulenin formed a hydroxylactam ring. The electron density observed in the KASII-cerulenin complex is not consistent with this structure. It was not possible to model bound cerulenin in the closed ring form but the open form of the inhibitor could readily be fitted to the electron density map. The hydroxylactam ring, which is formed preferably in protic solvents (Funabashi, et al. (1989) supra), is not present in the hydrophobic environment of the protein.

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In the KASII-cerulenin complex, the inhibitor amide carbonyl oxygen is within hydrogen bond distance to the NE atoms of the side chains of His-340 and His-303, while the amide NH₂ group does not make any close interactions. It is, however, not possible from the structure to exclude the opposite conformation and interactions for the amide group. The hydroxyl group at C3 forms a hydrogen bond to the main chain NH of Phe-400. The carbonyl oxygen at C4 does not form any polar interactions, in fact, it is located in a very hydrophobic pocket formed by side chains Phe-400, Phe-202, and Val-134 from the other subunit in the dimer. The binding site for the hydrophobic part of the inhibitor is also lined with hydrophobic residues: Ala-162, Gly-107, Leu-342, Phe-202, Leu-111, Ile-108, Ala-193, Gly-198; and from the second subunit in the dimer, Ile-138, Val-134, and Phe-133. The two double bonds with trans configuration give the hydrophobic tail a shape that fits to the hydrophobic groove once residue Ile-108 has changed rotamer. In comparison, binding of tetrahydrocerulenin would cost entropy, and as expected it shows more than 2 orders of magnitude less inhibitory activity (D'Agnolo, et al. (1973) Biochim. Biophys. Acta 326:155-156). The influence of the length of the hydrocarbon chain, maintaining the double bond positions, has been studied using fatty acid synthase from Saccharomyces cerevisiae (Morisaki, et al. (1993) J. Biol. Chem. 211:111-115). Cerulenin (12 carbons) had the highest inhibitory activity, with slightly decreasing binding strength upon increase in chain length. However, when increasing the length from 16 to 18 carbon atoms, the inhibition decreased by 2 orders of magnitude. The size of the hydrophobic pocket in KASII, which binds the

hydrocarbon tail of cerulenin, suggests that there is space for a longer hydrophobic tail only if the side chains of Leu-111 and of Phe-133 in the second subunit change their conformation. Thus, possible differences in the sensitivity of condensing enzymes toward cerulenin might be controlled by the size of this cavity.

The structure of the cerulenin complex can be considered to mimic the intermediate formed upon reaction of KAS with the acyl-ACP. In such a complex the hydrophobic cavity would harbor the hydrocarbon tail of the acyl intermediate. The acyl hydrophobic tails will not be restricted by two double bonds (as in the case of cerulenin), and this will allow longer acyl chains to be buried in this pocket. Inspection of the active site cavity suggests that it would not be possible to harbor a linear acyl chain longer than 14 carbon atoms without structural changes. Such conformational changes must occur since KASII is able to elongate 16:1 to 18:1 (Garwin, et al. (1980) J. Biol. Chem. 255:3263-3265).

Coordinates for the KAS II crystal structure as well as the KAS-cerulenin complex were produced and are presented in Figures 1 and 2 respectively.

Example 2: Engineering KAS II Proteins

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The structure of the *E.coli* KAS II-cerulenin complex was analyzed using the Swiss Pdb Viewer (SPV) modeling program, and by stereo viewing of printouts of the structure in different orientations. Using SPV each of the hydrophobic residues surrounding the bound cerulenin residue were changed to all the possible larger hydrophobic residues, and each of the rotamers for the mutant amino acids were examined for steric clashes (SPV rotamer score) with adjacent amino acids and the bound cerulenin molecule. The identified amino acids were targeted for mutagenesis for decreasing the fatty acid chain length specificity of the KAS II protein. The candidate chain length shortening mutations chosen were those that made the least steric clashes with neighboring amino acids while having the most clashes with the end 1 to 6 carbons of cerulenin.

The structure of the *E.coli* KAS II / cerulenin complex was studied as described above and the hydrophobic amino acid residues near the end of the cerulenin binding "pocket" were identified. These amino acids were identified for mutagenesis for the increase in fatty acid chain length recognition. The large hydrophobic residues positioned beyond the end of the

cerulenin potentially preventing longer fatty acids from occupying this pocket were chosen for mutagenesis to smaller (alanine) residues.

PCR site-directed mutagenesis was performed using the Quick-ChangeTM site-directed mutagenesis kit (Stratagene) following the manufacturers protocol. For the preparation of the specific mutations listed in Table 1, the following oligonucleotide primers were used in the reactions.

Table 1

	1108F Sense	5'-GTGCCGCAATTGGATCCGGGTTTGGCGGCCTCGGAC (SEQ ID NO:1)
10	Antisense	5'-GTCCGAGGCCGCCAAACCCGGATCCAATTGCGGCAC (SEO ID NO:2)
		(OLQ ID NO.2)
	IIO8L Sei	nse5'-GTGCCGCAATTGGCTCCGGGCTTGGAGGCCTCGGACTGATCG (SEQ ID NO:3)
	Antiser	nse5'-CGATCAGTCCGAGGCCTCCAAGCCCGGAGCCAATTGCGGCAC (SEQ ID NO:3)
		TOURS TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR
15	A 1931 Sense	5'-GCAGGTGGCGCCGAGAAAATCAGTACGCCGCTGGGC (SEO ID NO:5)
		() (0000) (0000)
	7 111(130)	se 5'-GCCCAGCGGCGTACTGATTTTCTCGGCGCCACCTGC (SEQ ID NO:6)
	A193M Sense	5'-GGTGGCGCAGAGAAAATGAGTAGTAGTGGGGGGGGGGGG
	Antisense	5'-GGTGGCGCAGAGAAAATGAGTACTCCGCTGGGCGTTG(SEQ ID NO:7)
20	Antiscuse	5'-CAACGCCCAGCGGAGTACTCATTTTCTCTGCGCCACC(SEQ ID NO:8)
20	I108A, L111A.	TIIAA
	Sense	
		5'-GCAATTGGCTCCGGGGCTGGCGGCCGGACTGGCCGAAG
		C(SEQ ID NO:9)
25	Antisense	5'-GTGTGGTTTTCTTCGGCCAGTCCGGCGCCCAGCCCCGG AGCCAATTGC (SEO
25	ID NO:10)	
	LIIIA Sense	5'-GGGATTGGCGGCCCGGACTGATCGAAG(SEQ ID NO:11)
	Antisense	5'-CTTCGATCAGTCCGGCGCCCAATCCC(SEQ ID NO:12)
30	F133A Sense	5'-GATCAGCCCATTCGCGGTACCGTCAACGATTGTG(SEQ ID NO:13)
	Antisense	5'-CACAATCGTTGACGGTACCGCGAATGGGCTGATC(SEQ ID NO:14)
		•
	1197A Sense	5'-GAGAAAGCCAGTACTCCGGCGGGCGTTGGTGG(SEQ ID NO:15)
	Antisense	5'-CCACCAACGCCCGCGGAGTACTGGCTTTCTC(SEQ ID NO:16)
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Example 3: Construct Preparation

40 3A. E. coli Expression Constructs

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A series of constructs are prepared to direct the expression of the engineered KAS sequences in E. coli.

A series of constructs are prepared to direct the expression of the various engineered KAS sequences in host plant cells.

The construct pCGN10440 contains the I108F mutant expressed from the pQE30 (Qiagen) vector for expression in a host $E.\ coli$ cell.

The construct pCGN10441 contains the I108L mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10442 contains the A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

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The construct pCGN10443 contains the I108F, A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10444 contains the I108L, A193I mutant expressed from the pQE30 (Qiagen) vector for expression in a host E. coli cell.

The construct pCGN10445 contains the A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10446 contains the I108F, A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10447 contains the I108L, A193M mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10448 contains the L111A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10449 contains the F133A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10450 contains the L111A, F133A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10451 contains the I108A, L11A, I114A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10452 contains the F133A, L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10453 contains the I108A, L11A, I114A, F133A, L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

The construct pCGN10454 contains the L197A mutant expressed from the pQE30 (Qiagen) vector for expression in a host *E. coli* cell.

3B. Preparation of Plant Expression Constructs

A series of constructs are prepared to direct the expression of the engineered KAS sequences in plant host cells, both alone and in combination with additional sequences encoding proteins involved in fatty acid biosynthesis

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A plasmid containing the napin cassette derived from pCGN3223 (described in USPN 5,639,790, the entirety of which is incorporated herein by reference) was modified to make it more useful for cloning large DNA fragments containing multiple restriction sites, and to allow the cloning of multiple napin fusion genes into plant binary transformation vectors. An adapter comprised of the self annealed oligonucleotide of sequence

10 CGCGATTTAAATGGCGCGCCCTGCAGGCGGCGCCGCCTGCAGGGCGCGCCATTTAA
AT (SEQ ID NO:) was ligated into the cloning vector pBC SK+ (Stratagene) after digestion
with the restriction endonuclease BssHII to construct vector pCGN7765. Plamids
pCGN3223 and pCGN7765 were digested with NotI and ligated together. The resultant
vector, pCGN7770, contains the pCGN7765 backbone with the napin seed specific
expression cassette from pCGN3223.

A binary vector for plant transformation, pCGN5139, was constructed from pCGN1558 (McBride and Summerfelt, (1990) Plant Molecular Biology, 14:269-276). The polylinker of pCGN1558 was replaced as a HindIII/Asp718 fragment with apolylinker containing unique restriction endonuclease sites, AscI, PacI, XbaI, SwaI, BamHI, and NotI. The Asp718 and HindIII restriction endonuclease sites are retained in pCGN5139.

A binary vector, pCGN8642 was constructed to allow for the rapid cloning of various expression cassettes into the vector for use in plant transformation. The construct contains a multiple cloning region located between the right and left borders of the *Agrobacterium* transfer DNA. The construct also contains the Tn5 gene expressed from the 35S promoter between the multiple cloning site and the left border for selection of transformed plants on kanamycin.

A 354 bp Bg/III fragment containing the Cuphea hookeriana KASII-7 plastid targeting sequence (Figure 14) (SEQ ID NO:) was cloned into the BamHI site of the various pQE30 constructs containing the E. coli KASII (FabF) wild type or mutant KAS sequences. The resultant chimeric KAS II targeting sequence/FabF encoding sequence were cloned as HindIII/SalI fragments into filled-in SalI/XhoI sites of the napin expression cassette,

pCGN7770. The resulting napin/KAS cassettes were cloned as *Not*I fragments into the *Not*I sites of various plant binary constructs as described below.

A napin cassette containing the coding sequence of the *Cuphea hookeriana* FatB2 protein (described in PCT Publication WO 98/46776, the entirety of which is incorporated herein by reference) was cloned as a *Not*I fragment into the *Not*I site of pCGN8642 to create pCGN11000.

A napin cassette containing the coding sequence of the *Garm FatA1* protein (described in PCT Publication WO 97/12047, the entirety of which is incorporated herein by reference) was cloned into the *Not*I site of pCGN8642 to create pCGN11003.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11003 to create pCGN11040.

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A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11003 to create pCGN11040.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN8642 to create pCGN11041.

A napin cassette containing the native (wild-type) E. coli KAS II coding sequence was cloned into the NotI site of pCGN11000 to create pCGN11042.

A napin cassette containing the L111A KAS II mutant coding sequence was cloned into the *NotI* site of pCGN11003 to create pCGN11045.

A napin cassette containing the L111A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11046.

A napin cassette containing the F133A KAS II mutant coding sequence was cloned into the *NotI* site of pCGN11003 to create pCGN11049.

A napin cassette containing the F133A KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11050.

A napin cassette containing the L111A, F133A KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11053.

A napin cassette containing the L111A, F133A KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11054.

A napin cassette containing the I108A, L111A, I114A KAS II triple mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11057.

A napin cassette containing the I108A, L111A, I114A KAS II triple mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11058.

A napin cassette containing the I108A, L111A, I114A, F133A, L197A KAS II multiple mutant coding sequence was cloned into the *Not*I site of pCGN11003 to create pCGN11061.

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A napin cassette containing the I108A, L111A, I114A, F133A, L197A KAS II mulitple mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11062.

A napin cassette containing the I108F KAS II mutant coding sequence was cloned into the *Not*I site of pCGN11000 to create pCGN11065.

A napin cassette containing the I108F KAS II mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11066.

A napin cassette containing the I108F, A193I KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN11000 to create pCGN11069.

A napin cassette containing the I108F, A193I KAS II double mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11070.

A napin cassette containing the A193M KAS II mutant coding sequence was cloned into the *NotI* site of pCGN11000 to create pCGN11073.

A napin cassette containing the A193M KAS II mutant coding sequence was cloned into the *Not*I site of pCGN8642 to create pCGN11074.

Example 4: Analysis of Engineered KAS II Proteins Expression in E. coli

the Stratagene Quick-ChangeTM site-directed mutagenesis kit, and confirmed by DNA sequencing. The mutant KAS II genes cloned behind an IPTG inducible T5 promoter (pQE30 vector, Qiagen) were transformed into *E.coli* strain M15/pREP4. The effect of the expression of these KAS II mutants on the fatty acid composition of *E.coli* is shown in Figure 3. *E.coli* M15/pREP4 strains containing no vector (-Vec), vector without insert (+Vec), or vectors expression wild-type KAS I or II or single or multiple engineered forms of KASII were grown to mid-log phase in LB media at 30°C. Expression was induced for 2 hours with IPTG (0.75 mM), cells were harvested, lyophilzed, and the lipids were extracted into toluene and

derivatized by sodium methoxide and analyzed for fatty acid content by GC FAME analysis as described in Dehesh, et al. (1998) Plant J. 15:383-390.

The mutations prepared to increase the length of the end product fatty acids lead to the accumulation of abnormally long fatty acids in *E.coli* (Figure 3). Wild-type *E.coli* membranes contain no stearic acid and barely detectable levels of 20:0 and 20:1. Whereas L197, F133A and L111A all resulted in further elongation of the normal membrane components 16:0, and 18:1 resulting in the accumulation of 4, 7 and 13% 18:0 respectively, and 1 to 3% 20:0 and 20:1. KAS II/L111A produced the highest level of 18:0 (13%) while KAS II/L111A-F133A accumulated the highest levels of 20:0 and 20:1 (2 and 4% respectively). Mutations I108A and I114A appeared to decrease the long chain fatty acid accumulation due to L111A and F133A.

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The KAS II mutants prepared to shorten the maximum fatty acids were analyzed in vitro for the ability to utilize various chain length acyl-ACP substrates. Results of the in vitro assays (Figures 4, 5, and 6) demonstrates that the mutants I108F, I108L, A193M, and A193I have a reduced ability to utilize C8-ACP and longer substrates for condensation. However, these mutations are able to utilize C6-ACP substrates for elongation to produce C8 fatty acids. Furthermore, at least one mutation, A193M, had an increased ability to utilize C6-ACP substrates compared to the wild-type KAS for elongation.

The data showing the effect of mutations I108F, I108L, A193I and A193M (together or separately) on the enzymatic activity of KAS II are summarized in figures 4, 5 and 6. Figure 4 shows that mutations I108F, I108L and A193M all cause significant reduction in the activity of KAS II on 8:0-ACP as compared to 6:0-ACP (38, 31 and 12 fold reductions respectively), without significantly reducing the activity on 6:0-ACP. In other words they have effectively changed KAS II into an enzyme capable of making fatty acids up to a maximum of 8 carbons in length. Mutation A193I only causes a 1.8 fold decrease in activity on 8:0-ACP as compared to 6:0-ACP. Figure 5 shows that the combined mutations at I108 and A193 have the effect of reducing the activity of KAS II on 6:0-ACP somewhat, but figure 6 shows that the combined effect was much greater effect on the activity with acyl-ACPs 8:0 and longer (14:0). Consequently the double mutants are even more specific for the synthesis of 8 carbon fatty acids. The most specific is KAS II I108F/A193 KAS II which is 90X more active on 6:0-ACP than it is on 8:0-ACP suggesting that it is now an enzyme highly specific for the synthesis of fatty acids only up to 8 carbons in length.

Example 5: Structural Comparisons of a Plant Medium-Chain specific KAS with *E.coli* KAS II

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To further characterize the structure-function relationships of KAS fatty acid binding pockets the modeled structure of a plant medium-chain (8:0, 10:0) specific KAS [Cuphea. pulcherrima, (C.pu) KASIV] (Dehesh et al. (1998) Plant J. 15:383-390) was compared with the crystal structure of E.coli KAS II. Figure 8 shows that C.pu KAS I is predicted to share essentially the same folding pattern as E.coli KAS II with the exception of a few loop regions, as might be expected given the structural similarity between KAS enzymes. Furthermore, Cpu KAS IV also has a similar structure (Figure 9). The general structure for the KAS family of proteins follows the α - β - α - β - α folding pattern. Indeed at the amino acid sequence level, all but 7 of the 55 highly conserved residues among KAS enzymes are identical (87% identity). However there is only 60% identity in hydrophobic fatty acid binding pocket region with 8 of the 20 amino acids being different consistent with this region of the protein being responsible for the differences in the enzymes specificity. Furthermore the model shows no stearic hinderance in the formation of KASI and KASIV heterodimer (Figure 10). In addition, amino acid sequence comparisons between plant, mammalian, bacterial

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Example 6: Plant Transformation and Analysis

The expression constructs described in Example 3B above were used to transform *Arabidopsis thaliana* (Columbia) and/or Columbia mutants fab1, fae1-1, and fae1-2.

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Seeds from transformed *Arabidopsis* lines were analyzed for fatty acid composition and are provided in Table 2 below and shown in Figure 13. Fatty acid methyl esters (FAME) extracted in hexane were resolved by gas chromatography (GC) on a Hewlett Packard model 6890 GC.

Table 2

Falty 12:0 14:0 16:1 18:0 18:1 18:2 18:3 20:0 20:1 Acid Cil C9 C11 C9 C11 C11 11058-AT002-19 0.29 0.17 7.86 0.50 3.85 14.53 3.37 26.02 18.72 2.83 11.61 3 AT002-AT 0.12 0.00 5.30 0.23 2.49 10.47 1.34 21.55 25.97 2.75 14.55 1.65 1.21 29.06 17.22 2.06 17.22 1.06 1.06 1.06 9.46 0.29 3.49 13.87 1.18 27.32 18.88 2.38 1.55 1.55 1.55 1.55 1.56 1.75 1.56 1.75													
0.29 0.17 7.86 0.50 3 0.12 0.00 8.53 0.26 0.00 0.00 9.46 0.29	Fatty	12:0	14.0	16.0	16.1	1	101						
0.29 0.17 7.86 0.50 3 0.12 0.00 5.30 0.23 0.17 0.00 8.53 0.26 0.00 0.00 9.46 0.29	7.7	ì	9	2.0.0	1.01		18:1	1.8.	18:2	18:3	20:0	20:1	20:1
0.29 0.17 7.86 0.50 3.85 14.53 3.37 0.12 0.00 5.30 0.23 2.49 10.47 1.34 0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18	שמו												
0.29 0.17 7.86 0.50 3.85 14.53 3.37 0.12 0.00 5.30 0.23 2.49 10.47 1.34 0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18							و	ב				5	;
0.29 0.17 7.86 0.50 3.85 14.53 3.37 0.12 0.00 5.30 0.23 2.49 10.47 1.34 0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18	11050 ATOM 10	6		,			3	;				<u>ا</u>	S
0.12 0.00 5.30 0.23 2.49 10.47 1.34 0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18	61-7001 W-9C011	0.29	0.17	7.86	0.50	3.85	14 53	3 37	26.00	10 77	000	17	, ,
0.12 0.00 3.30 0.23 2.49 10.47 1.34 0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18	111062, A TOO? 9	5	0	000				3	70.07	7/.01	0.3	10.1	5.7
0.17 0.00 8.53 0.26 3.35 15.65 1.21 0.00 0.00 9.46 0.29 3.49 13.87 1.18	9-70014-70011	71.0	3	5.30	0.23	2.49	10.47	1 34	21 55	25 07	77	33 F	
0.00 0.00 9.46 0.29 3.49 13.87 1.18	AT002-44	710	8	. 63 0	,,,,			?		7.7	7	4.7	7.11
0.00 0.00 9.46 0.29 3.49 13.87 1.18		-	3	0.73	07.0	3.35	15.65	-	20.06	17 22	900	17.22	1 36
0.00 0.00 9.46 0.29 3.49 13.87 1.18	11041-AT002 0			77.0	6				200	77.1	3	77./	00.1
	6-700111-11-011	20.00	0.0	7.40	0.79	3.49	13.87	<u>~</u>	27 32	88.8	300	17.50	1 13
									10:12	0.00	7.70	70.1	C+:-

Fatty Acid	20:5	20:3	22:0	22:1	22:2	22:3	24:0	24:1	
11058-AT002-19 11062-AT002-8 AT002-44	1.39 2.56 1.63	2.07	0.41 0.55 0.29	5.36	0.33 0.40 0.02	0.33 1.13 0.07	0.90 0.42 0.14	0.81 0.63 0.14	
6-700 IU-11-01	.07	0.48	0.30	746	2	2	010	7	

T2 pooled seeds from transgenic Arabidopsis lines containing pCGN11041 (11041-AT002-9) expressing the native E. coli KAS II protein in the seed tissue demonstrated nearly the same fatty acid composition as the nontransformed control Arabidopsis plants (AT002-44).

T2 pooled seeds from transgenic *Arabidopsis* var Columbia containing the construct pCGN11058 demonstrated the ability to synthesize longer carbon chain fatty acids compared to the nontransformed control plants as well as transgenic plants containing the wild-type *E. coli* KAS II protein. Particular increases in the production of 18:1 c11, 20:1 c13, 24:0 and 24:1 are observed in transgenic plants containing pCGN11058. Increases of 18:1 c11, 20:1 c13, 24:0 and 24:1 of 2 to 3 fold are obtained compared to nontransformed control plants. The fact that these levels were not higher may be due to the fact that there are many enzymatic steps downstream from the condensation step catalyzed by KAS enzymes which affect the longer chain acyl-ACPs produced incorporation into triglycerides.

T2 pooled seeds from transgenic Arabidopsis var Columbia containing the construct pCGN11062 also demonstrated the ability to synthesize longer chain fatty acids compared to nontransformed control plants and transgenic plants containing the wild-type E. coli KAS II protein construct. The T2 pooled seeds of 11062 transgenic lines were found to have a 3 to 4 fold increase in 22:1 as well as increased amounts of 20:2, 20:3 and 22:3, consistent with the presence of a KAS II protein being present in the plastid.

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The above results demonstrate the ability to modify β -ketoacyl-ACP synthase sequences such that engineered β -ketoacyl-ACP synthases having altered substrate specificity may be produced. Such β -ketoacyl-ACP synthases may be expressed in host cells to provide a supply of the engineered β -ketoacyl-ACP synthase and to modify the existing pathway of fatty acid synthesis such that novel compositions of fatty acids are obtained. In particular, the engineered β -ketoacyl-ACP synthases may be expressed in the seeds of oilseed plants to provide a natural source of desirable TAG molecules.

All publications and patent applications mentioned in this specification are indicative of the level of skill of those skilled in the art to which this invention pertains. All publications and patent applications are herein incorporated by reference to the same extent as

if each individual publication or patent application was specifically and individually indicated to be incorporated by reference.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it will be obvious that certain changes and modifications may be practiced within the scope of the appended claims.

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Claims

What is claimed is:

- A method for obtaining an engineered β-ketoacyl-ACP synthase having an altered
 substrate specificity with respect to the acyl-ACP substrates utilized by said β-ketoacyl-ACP synthase, wherein said method comprises:
 - a) modifying a gene sequence encoding a first β -ketoacyl-ACP synthase protein to produce a modified β -ketoacyl-ACP synthase gene sequence, wherein said modified sequence encodes an engineered β -ketoacyl-ACP synthase having at least one substitution, insertion or deletion of one or more amino acid residues in the mature portion of said first β -ketoacyl-ACP synthase, and
 - b) expressing said modified gene sequence in a host cell, whereby said engineered β -ketoacyl-ACP synthase is produced.
- The method of claim 1 further comprising the step of assaying said engineered βketoacyl-ACP synthase to detect altered substrate specificity.
 - 3. The method according to claim 1 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 105 120, 130 140, 190 200 and 340 400 of a β-ketoacyl-ACP synthase protein.
 - 4. An amino acid sequence encoding a β-ketoacyl-ACP synthase protein wherein said sequence has at least one substitution, insertion or deletion of at least one amino acid residue and said protein has an altered substrate specificity.
 - 5. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from a prokaryotic source.
- 6. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from30 E.coli.

7. The amino acid sequence of claim 4, wherein said amino acid sequence is obtained from a plant source.

- 8. An amino acid sequence encoding a β-ketoacyl-ACP synthase protein wherein said sequence has at least one substitution, insertion or deletion of at least one amino acid residue selected from the group consisting of residue 105 120, 130 140, 190 205 and 340 400.
- 9. The amino acid sequence of claim 8, wherein said amino acid sequence is obtained from10 E.coli.
 - 10. The amino acid sequence of claim 9 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 108, 111, 113, 114, 133, 138, 193, 197, and 203.

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- 11. The amino acid sequence of claim 8, wherein said amino acid sequence is obtained from a plant source.
- 12. The amino acid sequence of claim 11 wherein said at least one amino acid substitution, insertion or deletion is in a position selected from the group consisting of residue 110, 113, 115, 116, 134, 139, 198, and 204.
 - 13. A nucleic acid construct comprising as operably linked components in the 5' to 3' direction of transcription:
- 25 a transcriptional initiation region; and
 - a polynucleotide sequence encoding a $\beta\text{-ketoacyl-ACP}$ synthase having an altered substrate specificity.
- 14. The nucleic acid construct of claim 13, wherein said β-ketoacyl-ACP synthase has a
 30 engineered hydrophobic fatty acid binding pocket.

15. The nucleic acid construct of claim 13, wherein said β-ketoacyl-ACP synthase has been mutated in a region corresponding to an amino acid selected from the group consisting of residue 105 - 120, 130 - 140, 190 - 200 and 340 - 400.

5 16. A method for altering the fatty acid composition of a host cell comprising;
 transforming a host cell with a nucleic acid expression construct comprising a
 transcription initiation region, and a nucleic acid sequence encoding a β-ketoacyl-ACP synthase having altered substrate specificity, and
 growing said host cell under appropriate culture conditions such that the fatty acid
 composition is altered in said host cell.

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l C	B LYS	3 / 4	<u> </u>	2 5.613	-3.32	4 2.834	1.00	59.1	4 6
<u>C</u>	LYS	314	<u> 1</u>	6.322	-2.75		1.00		
С	LYS	3 1	AL:	5.431	-1.78		1.00		
[c	ELYS	; T	N. L2		-0.370		1.00		
N:			1 2		0.235	6.114	1.00		
C	LYS				-2.72		1.00		_
0	LYS		_	8.092	-3.798				
N	LYS								
C/			_		-3.329		1.00		
		_			-2.678		1.00		
N	ARC				-1.550		1.00	51.95	7
C					-1.460		1.00	49.09) 6
CI					-0.701	-0.286	1.00	45.74	16
C	ARC	14	43	9.634	-1.551	-1.531	1.00	42.70) 6
C	ARC		13	9.283	-0.696	-2.736	1.00	39.77	6
N	ARC	ه ل	3	10.401	0.132	-3.168	1.00	37,67	7
CZ	ARC	i LA	3	11.302	-0.211	4.077	1.00	38.43	
l N	ARC	ه ا	<u> 3</u>	11.252		-4.674	1.00	36.91	
N	ARG	A	_ 3	12.270		-4.395	1.00	39.50	
C	ARC		3	10.314			1.00	47.74	
Г	ARC		3	10.086		2.498	1.00	48.18	
N	ARG		4	11.236		2.759	1.00	45.69	_
CA		_	4	12,030		3.884	1.00	43.14	_
ÇB		_	4	12.459		4.753			
C	ARG	_	4	11.299	-		1.00	45.59	
Č	ARG		4	11.719		5.351	1.00	49.39	
N	LARG		14			5.750	1.00	52.07	16
CZ	ARG		14	12.975	<u>-4.463</u>	6.482	1.00	56.09	17
N	ARG	_	+-	13,402	-5.394	7.320	1.00	57.45	6
N			14		-6.469	7.583	1.00	58,72	17
C	ARG		14	14.583	-5.250	7.911	1.00	58.03	17
16	ARG		4	13.258	-0.297	3.435	1.00	40.93	16
N	ARG	١Ą	4	13.873	-0.605	2.416	1.00	40.28	8
CA	VAL	۱Ą	5	13.590	0.744	4.194	1.00	38.82	7
CB	VAL	ļĄ	15	14.729	1.598	3.891	1.00	37,38	16
	VAL	ĮĄ.	15	14.346	3.087	3.796	1.00	36.10	6
드	VAL	₩.	5	15.533	3.916	3.320	1.00	33.72	6
C	VAL	1A	5	13.154	3.308	2.877	1.00	36.27	6
ö	VAL	₩	15	15.816	1.453	4.953	1.00	36.82	6
		ļĄ.	5	15.549	1.542	6.151	1.00	36.76	8
N CA	VAL	 A	16	17.046	1.229	4.506	1.00	36.09	7
CA	VAL	ļ.	16	18.188	1.076	5.394	1.00	35.35	6
CB.	VAL	ļĄ.	6	18.784	-0.343	5.351	1.00	34.87	6
č	VAL	ļĄ.	6	17.864	-1.358	6.013	1.00	34.92	6
<u>c</u>	VAL	ĮA.	6	19.087	-0.767	3.921	1.00	33.83	6
Ç.	VAL	ĮA.	6	19.280	2.084	5.044	1.00	35,02	6
0	VAL	14	6	19.291	2.649	3.954	1.00	34.67	8
N.	VAL	↓ ▲	17	20.190	2.324	5.981		<u>35.45</u>	[7]
CA	VAL	ļA.	17	21.298	3.256	5.781	1.00	34.76	6
CB	VAL	A	7	21.519	4.143	7.016	1.00	34.20	6
С	VAL	IA.	7	22.549	5.229	6.736	1.00	35.28	6
С	VAL	A	7	20.207	4.769	7.474	1.00	33.35	6
С	VAL	A	7	22.567	2.474	5.464	1.00	34.53	6
0	VAL	A	7	23.042	1.691	6.287		34.58	8
N_	THR	Α	8	23.109	2.663	4.264	1.00	34.21	7
ÇA	THR	Α	8	24.292	1.941	3.833		33.29	6
CB	THR	Α	8	24.005	1.203	2.496		32.59	6
Ο.	THR	A	8	23.817	2.189	1.470		33.02	8
С	THR	A	8	22.787	0.308	2.579		29.02	6
Č	THR	A	8	25.539	2,774	3.600		33.18	6
0	THR	A	8	26.490	2,253	3.004		33.39	8
N	GLY	A	9	25.560	4.034	4.005		33.20	7
CA	GLY	Â	9	26.733	4.875	3.757		32.15	6
Č	GLY	Ā	9	26.610	6.183	4.528		31.83	6
ŏ	GLY	Â	9	25.543	6.795				_
N.	LEU	Â	1	27.702		4.564		0.94	<u>8</u>
47	UiiU	a.		41.(V%	6.580	5.174	1.00 3	11.18	7

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C/			4	1 27.71		5.976	1.0	0 30.8	8 6
Š			<u> </u>	1 27.83		7.465	1.0		_
င်	LEU		<u> </u>	1 26.81		3.091	1.0		_
은	LEU		_	1 27.19 1 25.41		9.528	1.0		
C	LE		_	1 25.410 1 28.86		8.027	1.0		
ŏ	LEU		_	1 29.92		5.557	1.0		_
N	GLY			1 28.660		5.142	1.0		
C.				1 29.70			1.00		
c	GLY		_	29.42			1.00		-
ŏ	GLY	_	_	28.260			1.00		
N	ME	_		30.47			1.00		
CA		_	_			_	1.00		
CE		_					1.00		
C	ME	_					1.00		_
SD						_	1.00	_	
CE			_				1.00		
С	ME						1.00		
0	MET	· A	U			7.402	1.00		
И	LEU		J				1,00		
CA		Α	J				1.00		
CB	LEU	Α	Ų.	32.577			1.00		
С	LEU		41	33.334	17.830	5.431	1.00		_
<u>C</u> _	LEU				18.630	4.173	1.00	33,46	6
<u>c</u>	LEU	4	_	34.828	17.784	5.721	1.00	33.17	6
<u>c</u>	LEU		41	31.597	18,185	8.933	1.00		
0	LEU	ĄĄ.	41	30.438	18.586	8.823	1,00		
Ň	SER	ļ٨	44	32.312	18.320	10.034	1.00		7
CA	SER	ļ٨	4.	31.761	18.998	11.205	1.00		6
CB O	SER	٦À	+;	31.153	17.968	12,155	1.00		_
č	SER		$\frac{1}{1}$	32.095 32.860	17.519	13.112	1.00	31.76	8
ŏ	SER	IA	11	34.043	19.787 19.612	11.895	1.00	28.55	6
N	PRO	IA	li	32.488	20.594	11.612	1.00	28.57 29.49	7
С	PRO	Ā	lì	31.084	20,865	13.288	1.00	29.61	6
CA	PRO	A	lì	33,426	21.371	13.665	1.00	29,78	6
CB	PRO	A	Τī	32,547	22,264	14.535	1.00	29.65	6
C	PRO	IA	Τi	31,201	22,240	13.902	1.00	29.56	6
C.	PRO	A	1	34.379	20.543	14.509	1.00	30.22	6
Q_	PRO	Α	Įı.	35.409	21.090	14.924	1.00	30.34	8
<u>N</u>	VAL	A	11	34.099	19.277	14.817	1.00	30.78	7
CA	VAL	Į A	μ	35.023	18.464	15.592	1.00	31.66	6
CB	VAL	ļA.	11	34.400	17.804	16.836	1.00	31.11	6
<u>Ç</u>	VAL	ļĄ.	11	34.067	18.850	17.890	1.00	32.88	16
C C	VAL	ļĄ.	11	33.175	16,980	16.477	1.00	31,36	6
	VAL	ļĄ.	ŀ	35.695	17.376	14.761	1.00	32.04	6
7		A	H	36.346	16.500	15.340	1.00	33.52	8
ČA	GLY	ļΑ	1	35.563	17.410	13.440	1.00	31.84	7
C	GLY	A	1	36.197 35.809	16.390	12.612	1.00	31.47	6
5	GLY	Â	1	34.696	16.494 16.904	11.146	1.00	31.36	6
V I	ASN	A	i	36.727	16,101	10.817 10.269	1.00	31.58	8
ČA	ASN	Â	1	36.512	16.147	8.833	1.00	30.64 30.14	_
СВ	ASN	Ā	ì	37.798	16.560	8.113	1.00		6
2	ASN	Â	î	37.969	18.057	7.977	1.00	35.19 40.02	6
ا ک	ASN	A	î	37.973	18.798	8.961	1.00	43.84	8
7	ASN	A	î	38.133	18.535	6.748	1.00	43.10	7
	ASN	À	ì	36.017	14.824	8.269	1.00	29.28	6
2	ASN	Α	ī	35,843	14.691	7.058	1.00	28.86	8
_	THR	A	1	35.881	13.805	9.104	1.00	29.33	7
	THR	Α	1	35,345	12.514	8.721	1.00	28.83	6
	THR	Α	1	36.381	11.377	8.653	1.00	27.69	6
	THR	Α	1	37.050	11.283	9.920	1.00	29.59	8
: T	THE	Δ	1	37 397	11.575	7 5 4 9	1.00	05 50	-

Figure 1 - 1

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	LC	THE	R I A	ΔIJ	34.289	12.07	7 9.743	1.00	0 29.04	1 6	:
	0	THE		λŪ	34.219						_
	N	VAL						1.00			
	Cá								_		_
	CI			_						_	
	C		H A				9.621	1.00			_
		VAL		_			10.564	1.00			
	C	VAL.				9.898	8.392	1.00	27.62	<u>: 6</u>	Ĺ
	C	VAL			33.145	9.945	11.609	1.00	31.80	6	
	0	VAL	. I A	1 2	32.732	10.364	12.694	1.00	33.28	8	_
	N	GLU		1 2	34.091	9.018	11.517	1.00			
	CA				34.703		12.692	1.00			
	CE		_		35.592		12.281	_			
	C		_					1.00			
		GLU			34.850		11.590	1.00	7	6	
	Š.	GLU			33.863	5.361	12.464	1.00	_		_
	0	GLU	-	_	33.912	5.510	13.703	1.00	40.93	8	
	0	GLU	A	2	33.025	4.607	11.919	1.00	39.19	8	
	C	CLU	LA	2	35.463	9.390	13.571	1.00		6	_
	0	GLU		2	35.245	9.391	14.789	1.00		8	_
	N	SER	A	2	36.257	10.293		1.00		17	-
	CA	SER	Ā	2	36.967	11.289					-
			_	_				1.00	_	6	-
	CB		Α.	12	37,958	12.083	12.967	1.00		6	
	<u>o</u>	SER	ļA.	12	37.334	12.786	11.911	1.00	33.76	8	_
	C	SER	J∆	2	35.977	12.193	14.529	1.00	31.48	16	
	Q	SER	ļΑ	12	36.173	12.531	15.698	1.00	31.98	8	
	N	THR	$\perp_{\mathbf{A}}$	2	34.896	12.578	13.854	1.00	30.90	7	
	CA	THR	IA	2	33,856	13.404	14.459	1.00		6	-
	CB		A	2	32.767	13.788	13.444	1.00	24.78	6	7
	0	THR	A	2	33.249	14.853	12.614	1.00	25.56	8	7
	C	THR	Ä	2	31.476					_	-
	č					14.246	14.101	1.00	21.14	6	4
		THR	ļĄ	12	33.215	12.612	15,601	1.00	30.00	6	4
	Ö.	THR	ļĄ	2	32.971	13.147	16.681	1.00	30.39	18	_
	N	TRP	ĮA.	2	32.902	11.346	15.337	1.00	30,23	17	4
	CA	TRP	ĮA.	12	32.277	10.472	16.324	1.00	31.17	6	
	CB	TRP	LA.	12	31.999	9.093	15.721	1.00	29.55	6	1
	C_	TRP	IA.	2	31.238	8.158	16.610	1.00	28.53	6	7
	C	TRP	A	2	30.034	8,432	17.335	1.00	27.77	6	1
	CE	TRP	Α	2	29.687	7.260	18.035	1.00	27.44	6	1
	CE	TRP	A	2	29.215	9,558	17.462	1.00	27.56	6	1
	C	TRP	Â	2	31.562	6.861				_	ł
	N						16,892	1.00	28.80	6	1
		TRP	ļĄ.	2	30.635	6.314	17.746	1.00	27.92	7	Į
	CZ	TRP	ĮA.	2	28.560	7.180	18.849	1.00	27.07	6	Į
	CZ	TRP	IA.	2	28.096	9,478	18,269	1.00	26.86	6	l
	9	TRP	A	2	27.776	8.295	18.952	1.00	27.23	6	l
	С	TRP	A	2	33.115	10,362	17.592	1.00	31.45	6	Į
	0	TRP	A	2	32.600	10.554	18.694	1.00	30.70	8	1
ı	N	LYS	A	2	34.404	10.082	17.456	1.00	32,86	7	۱
	CA	LYS	A	2	35.321	9.952	18.576	1.00	34.03	6	i
	СВ		Ä	2	36.713	9.523				_	ł
ı	C	LYS					18.097	1.00	39.21	6	l
l			A	2	36,744	8.185	17.377	1.00	44.28	6	l
l	<u></u>	LYS	Α	2	38.175	7.756	17.083	1.00	48,38	6	l
l	CE	LYS	Α	2	38,218	6.354	16.497	1.00	50,26	6	l
l	NZ	LYS	Α	2	39.243	5.508	17,170	1.00	53.04	7	ı
l	Ç_	LYS	Α	2	35.456	11,231	19.393	1.00	33.60	6	l
ŀ	0	LYS	A	2	35,500	11.178	20.626	1.00	33.43	8	l
l	N	ALA	Ā	2	35.493	12.381	18.727	1.00	32,92	7	
ľ	CA	ALA	A	2	35.574	13.661	19.422		33.42		í
١	CB	ALA	A	2	35.802			1.00		<u>6</u>	
۱				I		14.794	18,433	1.00	32.19	6	
	ջ	ALA	A	2	34.331	13.912	20.267	1.00	33.95	6	
	0	ALA	Δ.	2	34.435	14.413	21.390	1.00	34.63	8	
ļ	N	LEU	A	2	33.159	13.541	19,765	1.00	34.18	7	
	CA	LEU	A	2	31.909	13.718	20.487	1.00	34.55	6	
ĺ	CB	LEU	Α	2	30.710	13.432	19.585	1.00	33.95	6	
ľ	C	LEU	A	2	30.303	14.460	18.534	1.00	34.29	6	
		LEU	Ā	2	28.879	14 174			34.02	핅	

_	1			1.					
C	LEU	_	1 2				1.00	32.71	6
C	LEC						1.00	35.01	6
0	LEU		_			22,788	1.00	35.64	8
N.	LEU	$\overline{}$	_			21.655	1.00	35.18	7
CA						22.804	1.00	35.0€	6
CE	LEL	1 4	1 2	32.555	9.268	22.371	1.00	32.51	6
C	LEU	I A	1 2	31.525	8.585	21.467	1.00		
С	LEU	I A	1 2	31.961	7.165	21.133	1.00	26.45	
C	LEU	I A	12	30.142	8.573	22.099	1.00		
C	LEU	LLA	2	33.238	11.148		1.00		
0	LEU	I A	12	32.966	10.952		1.00		
N	ALA	ها	12	34.305	11.857		1.00		
CA	ALA	ДА	12	35.256	12.404		1.00		
СВ	ALA	\perp A	. 2	36.650	12.454	23.870	1.00		
C	ALA	I A	12	34.873	13.794	24.980	1.00		
0	ALA	LA		35.624	14.411	25.741	1.00		18
N	GLY			33.741	14.327	24.544	1.00		7
CA	GLY		3	33.263	15.629	24.953	1.00		6
C	GLY		. 3	34.078	16.803	24.446	1.00		
0	GLY	A	_	34.082	17.863	25.078	1.00		_
N	GLN		3	34.706	16.668	23.283			18
CA	GLN		3	35.474	17,757	22.699	1.00		7
CB	GLN		3	36.455	17.223		1.00		16
C	GLN		3	37.617	16.445	22.243	1.00		6
C	GLN		3	38.581	15.895		+ 8.00	46.29	6
ō	GLN	TA	3	38.706		21.215	+	48.06	6
N	GLN	_	3	39.286	16,408	20.103	1.00	48.24	8
c	GLN	TA	3	34.557	14.828	21.588	1.00	49.02	17 1
10	GLN	Ā	3	33.562	18.808 18.493	22,078	1.00	36.01	6
N	SER	Â	3	34.891		21.429	1.00	35.71	18
CA	SER	Ā	3	34.150	20.073	22.307	1.00	35.38	17
CB	SER	Â	3	34.195	22.391		1.00	34.80	16
ō	SER	ÍÃ	3	33.564	23.531	22.679	1.00	34.05	6
Č	SER	TÂ	3	34.763	21.541	22,140	1.00	33.64	18
ŏ	SER.	A	3	35.962	21.337	20.386	1.00	35.05	6
N	GLY	A	3	33.955	22.040	20.191	1.00	34.56	18
CA	GLY	Ä	3	34.462	22,402	19.459	1.00	35.39	17
Ċ	GLY	Â	3	34.336	23.906	18.135	1.00	35,60	6
ō	GLY	Â	3	34.539	24.440	17.921 16.835	1.00	35.68	6
N.	ILE	A	3	34.006	24,601		1.00	36,23	8
ĈA	ILE	Ā	3	33,746		19.000	1.00	36.01	7
СВ	ILE	Ā	3	32.690	26.031 26.348	18.997	1.00	36.55	6
C	ILE	Ä	3	32.210	27.780	20.089	1.00	36.05	6
C	ILE	A	3	31.583		19.950	1.00	34.80	6
č	ILE	Â	3	30.154	25.307 25.663	19.990	1.00	36.07	6
č	ILE	Â	3	34.994	26.875	20,253	1.00	39.29	6
ŏ	ILE	Â	3	35.710		19.184	1.00	37.54	6
N	SER	Â	3	35,253	26,788	20.180	1.00	37.10	8
CA	SER	A	3	36.422	27.735 28.593	18.204	1.00	38.80	7
СВ	SER	Â	3			18,154	1.00	39.48	6
Ö	SER		3	37.337	28,135	17.008	1.00	42,02	6
c	SER	A	3	38.329	27.235	17.454	1.00	46,40	8
ŏ	SER	A	3	36.059	30.053	17.896	1.00	39.54	6
N				34.918	30.363	17.558	1.00	39.54	8
CA	LEU	A.	3	37.045	30.937	18.011	1.00	39.16	7
CB	LEU	À	3	36.849	32.355	17.731	1.00	38.94	6
	LEU	A	3	37.937	33.204	18,383	1,00	41.98	5
읒	LEU	A	3	37.834	33.497	19.878	1.00	43.75	6
읏ㅣ	LEU	A	3	39.104	34.179	20.370	1.00	44.67	6
호ㅣ	LEU	Α	3	36.618	34.356	20.193	1.00	44.78	6
<u>ç</u>	LEU	A	3	36.876	32.580	16.219	1.00	38.03	6
욧ㅣ	LEU	A	3	37.683	31.949	15.534	1.00	38.07	8
N	ILE	A	3	36.013	33.447	15.704	1.00	37.29	7
CA	ILE	A	3	35.993	33,709	14.264	1.00	36.95	6
CB	ILE	A	3	34.716	34.443	13.832	1.00	35.68	6

Figure 1 - 2

C ILE A 3 34.806 34.938 12.395 1.00 34.35 6 C ILE A 3 33.494 33.531 13.991 1.00 36.91 6 C ILE A 3 37.223 34.525 13.874 1.00 37.25 6 C ILE A 3 37.232 34.525 13.874 1.00 37.25 6 C ILE A 3 37.232 34.525 13.874 1.00 37.25 6 C ILE A 3 37.232 34.525 13.874 1.00 37.25 6 C ILE A 3 37.232 34.525 13.874 1.00 37.25 6 C ASP A 3 37.235 34.535 12.331 1.00 39.13 6 C ASP A 3 39.956 34.874 12.331 1.00 39.13 6 C ASP A 3 40.215 32.654 12.664 1.00 47.45 6 C ASP A 3 40.275 32.654 12.064 1.00 47.15 6 C ASP A 3 39.957 32.654 12.064 1.00 49.13 8 C ASP A 3 39.957 35.265 10.663 1.00 38.72 6 C ASP A 3 39.957 35.265 10.663 1.00 38.72 8 C ASP A 3 39.957 35.946 10.414 1.00 38.79 8 N HIS A 3 37.971 34.930 10.127 1.00 37.25 6 C HIS A 3 37.379 34.059 7.893 1.00 36.86 6 C HIS A 3 36.020 33.624 8.342 1.00 37.26 6 C HIS A 3 36.020 33.624 8.342 1.00 37.20 7 C HIS A 3 33.830 33.492 8.295 1.00 37.20 7 C HIS A 3 33.830 33.492 8.295 1.00 37.20 7 C HIS A 3 33.830 33.492 8.295 1.00 37.23 8 N HIS A 3 37.241 36.534 8.359 1.00 37.23 8 N HIS A 3 37.241 36.534 8.359 1.00 37.23 8 N HIS A 3 37.241 36.534 8.359 1.00 37.23 8 A 37.434 38.609 34.68 1.00 37.23 8 A 37.434 38.609 34.68 1.00 37.23 8 A 37.434 38.699 34.68 1.00 37.23 8 A 37.434 38.699 34.68 1.00 37.92 6 C PHE A 4 36.155 37.250 3.3621 1.00 35.55 6 C PHE A 4 36.155 37.250 3.3621 1.00 37.93 6 C PHE A 4 36.155 38.609 34.68 1.00 37.93 6 C PHE A 4 36.552 38.609 34.68 1.00 37.93 6 C	<u></u>	_				_		_		_		_					
C			_	$\overline{}$	A	13	34.80	6	34.93	8	12.39	5_	1.0	oΙ	34.3	5	6
C	_	_	ILE	: !	Ą	3	33.49	4	33.53	1	13.99	1_	1.0	01	36.1	9	
C	L C		ILE		Α	13	32.18	4	1.34.28	0	14.122	2	1.0				_
N	LC		ILE		A	13	37.22	3			13.874	1		-	_		
N	Lo	\Box	ILE	; [À	13	37.55	2						_			
CA ASP A 3 39.056 34.674 12.331 1.00 39.13 6 CB ASP A 3 40.318 34.057 12.629 1.00 43.72 6 C ASP A 3 40.275 32.654 12.064 1.00 47.45 6 O ASP A 3 41.077 32.344 11.160 1.00 49.13 8 O ASP A 3 39.025 35.267 10.863 1.00 38.42 6 O ASP A 3 39.025 35.267 10.863 1.00 38.79 8 C ASP A 3 39.957 33.596 10.141 1.00 38.79 8 N HIS A 3 37.971 34.930 10.127 1.00 37.59 7 CA HIS A 3 37.971 34.930 10.127 1.00 37.59 7 CA HIS A 3 36.020 33.624 8.342 1.00 37.01 6 C HIS A 3 36.020 33.624 8.342 1.00 37.26 6 C HIS A 3 35.235 34.016 7.684 1.00 37.26 6 C HIS A 3 37.437 34.016 7.684 1.00 37.26 6 C HIS A 3 37.437 34.939 1.00 36.86 6 C HIS A 3 37.437 34.939 1.00 37.26 6 C HIS A 3 37.437 34.939 1.00 37.26 6 C HIS A 3 37.437 34.930 10.127 1.00 37.41 6 N HIS A 3 34.875 34.016 7.684 1.00 37.20 7 CC HIS A 3 37.431 36.534 8.359 1.00 37.69 6 N HIS A 3 37.431 36.534 8.359 1.00 37.69 6 N HIS A 3 37.431 36.534 8.359 1.00 37.23 8 N HE A 4 36.755 37.250 9.362 1.00 35.55 7 CA PHE A 4 36.975 38.684 9.192 1.00 35.55 6 C PHE A 4 36.97 38.684 9.192 1.00 35.55 6 C PHE A 4 33.035 38.840 10.416 1.00 28.25 6 C PHE A 4 33.035 38.840 10.416 1.00 28.25 6 C PHE A 4 33.035 38.840 10.416 1.00 28.25 6 C PHE A 4 36.927 39.324 10.00 37.92 6 C PHE A 4 36.927 39.324 10.00 37.92 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 33.035 38.840 10.416 1.00 28.25 6 C PHE A 4 36.927 39.324 10.00 1.00 28.25 6 C PHE A 4 36.927 39.324 10.00 1.00 28.55 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 37.93 6 C PHE A 4 36.927 39.324 10.00 30.93 66 6 C PHE A 4 36.927 49.92 10.00 36.55 6 C PHE A 4 36.927 49.92 10.00 36.95 6 C PHE A 4 36.92 10.00 36.95 10.00 37.93 6 C PHE A 4 36.92 10.00 36.95 1	N													_			
CB ASP A 3 40.318 34.057 12.629 1.00 43.72 6												_		_	_		_
C ASP A 3 40.275 32.554 12.064 1.00 47.45 6 O ASP A 3 41.077 32.344 11.160 1.00 49.13 8 C ASP A 3 39.444 31.842 12.525 1.00 38.29 8 O ASP A 3 39.957 35.946 10.414 1.00 38.79 8 N HIS A 3 37.971 34.930 10.127 1.00 37.91 8 CA HIS A 3 36.020 33.624 8.342 1.00 37.26 6 C HIS A 3 36.624 32.288 9.377 1.00 37.69 6 C HIS A 3 34.855 3.4016 7.684 1.00 37.69 6 C HIS A 3 37.255 36.534 8.359 1.00						_	_			_			-	_		_	_
O ASP A 3 41.077 32.344 11.160 1.00 49.13 8 O ASP A 3 39.444 31.842 12.525 1.00 52.02 8 C ASP A 3 39.025 35.267 10.863 1.00 38.42 6 O ASP A 3 39.957 35.946 10.414 1.00 38.79 8 N HIS A 3 37.971 34.930 10.127 1.00 37.59 7 CA HIS A 3 37.971 34.930 10.127 1.00 37.59 7 CA HIS A 3 37.379 34.059 7.893 1.00 36.86 6 C HIS A 3 36.020 33.624 8.342 1.00 37.26 6 C HIS A 3 36.020 33.624 8.342 1.00 37.26 6 C HIS A 3 33.4375 34.016 7.684 1.00 37.20 7 CE HIS A 3 37.913 34.928 9.377 1.00 37.41 6 N HIS A 3 34.252 32.781 9.324 1.00 37.69 6 N HIS A 3 37.241 36.534 8.359 1.00 36.69 6 N HIS A 3 37.241 36.534 8.359 1.00 36.69 6 N HIS A 3 37.241 36.534 8.359 1.00 37.69 6 N HIS A 3 37.241 36.534 8.359 1.00 37.69 6 N HIS A 3 37.242 36.522 7.190 1.00 37.23 8 N PHE A 4 36.197 38.584 9.192 1.00 35.56 6 C PHE A 4 36.197 38.584 9.192 1.00 35.56 6 C PHE A 4 33.678 38.669 9.468 1.00 31.76 6 C PHE A 4 33.678 38.669 9.468 1.00 31.76 6 C PHE A 4 33.678 38.669 9.468 1.00 31.43 6 C PHE A 4 33.678 38.609 9.468 1.00 31.43 6 C PHE A 4 33.678 38.609 1.00 27.02 6 C PHE A 4 33.678 38.699 1.00 30.270 6 C PHE A 4 33.678 38.699 1.00 30.2967 6 C PHE A 4 33.678 38.691 1.571 1.00 36.59 6 CZ PHE A 4 36.877 38.691 1.571 1.00 37.94 7 CA ASP A 4 36.487 38.691 1.571 1.00 37.94 7 CA ASP A 4 36.487 38.691 1.571 1.00 35.56 6 CZ PHE A 4 36.487 38.691 1.571 1.00 35.56 6 CZ PHE A 4 36.487 38.691 1.571 1.00 35.59 8 N ASP A 4 36.487 38.691 1.571 1.00 35.59 8 N ASP A 4 36.487 38.691 1.571 1.00 35.59 8 N ASP A 4 36.487 38.691 1.571 1.00 35.59 8 N ASP A 4 36.487 38.691 1.571 1.00 37.94 7 CA ASP A 4 36.487 38.691 1.571 1.00 37.94 7 CA ASP A 4 36.487 38.691 1.571 1.00 39.56 6 C PHE A 4 36.487 38.691 1.571 1.00 39.56 6 C PHE A 4 36.487 38.691 1.571 1.00 39.56 6 C SER A 4 37.632 43.576 12.491 1.00 49.18 6 C SER A 4 35.590 41.390 12.541 1.00 39.56 6 C SER A 4 37.336 44.758 12.759 1.00 49.24 8 C SER A 4 37.336 44.768 12.759 1.00 49.24 8 C SER A 4 37.336 44.768 12.759 1.00 39.56 7 CA THR A 4 34.293 41.588 12.140 1.00 39.96 7 CA ALA A 4 39.498 42.599 16.611 1.00 39.97 6 C SER A 4 33.5		~				_			_	ı				_			
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C	4	<u>LYS</u>		Ц	4	33.163	35.005	17.861	1.00			٦
0	+	<u>LYS</u>		1	4	34,296	34.813	17.414	1.00	31.29	8	7
N		PHE			4	32.331	34.024	18.189	1.00	30.23	7	1
CA	_	PHE			4	32.746	32.631	18.067	1.00	29,90	6]
CB	_	PHE	4		4_	32.956	32,036	19.465	1.00		6	1
C C		PHE	+4		4	31.749	32.146	20,352	1.00		6	1
c		PHE	+4		4	30.814	31.127	20.404	1.00		16	1
CE		PHE PHE	14		4	31.550	33.273	21.135	1.00		16	4
CE		PHE		_	4	29.701	31,226	21.220	1.00		16	1
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c		HE	TA	_	4	29.516 31.739	32.352	21.996	1.00		16	1
Ŏ.		HE	I A	_	4	30.587	31,794	17.292	1.00	30.06	16	1
z	_	LA	IA	_	5	32.186	32,180 30,619	17.108	1.00	30.44	8	┨
CA		LA	A	_	5	31.347	29.682	16.864 16.135	1.00	30,06	17	1
CB		LA	IA	_	5	31.022	30.226	14.749	1.00	29.97 30.60	16	ł
С		LA	IA		5	32.021	28.317	16.010	1.00	29.72	6	1
0	_	LA	Ā		5	33,199	28.141	16.314	1.00	29.34	8	f
N	1	LY	IA	J	5	31.240	27.343	15.560	1.00	29.39	7	1
CA	L	LY	IA	Ţ	5	31.771	25.999	15.301	1.00	29.28	6	1
С		LY	A	_	5]	32,187	26,026	13.820	1.00	29.28	6	١
0	Ľ	LY	Α		5	31.333	26.008	12.933	1.00	28.28	8	1
N	_	EU	Α	Į.	5	33.484	26.171	13.579	1.00	29.22	7	
ÇA		EU	Α		5	33.978	26.271	12.212	1.00	30.02	6	
CB		EU	A	_	٤.	34.980	27.425	12.103	1.00	28.78	6	
<u>c</u>		EU	A		1	34.413	28.821	12,389	1.00	28.71	6	
Ç.		EU	Δ	Į:		35.511	29,750	12.886	1.00	27.15	6	
<u>c</u>		<u>EU</u>	Α	Ľ		33.731	29.388	11.153	1.00	25.21	6	
<u>c</u>		EU	A	15		34.605	24.969	11.736	1.00	30,75	6	
9		EU	Α	Ļ		35.148	24.207	12.533	1.00	31.22	8	
N		AL.	Α	ئا		34.488	24.708	10.437	1.00	31.59	7	
CA		AL.	A	Ļ	_	35,117	23,509	9.866	1.00	32,60	6	
CB		AL	A	Ļ	_	34.479	23.078	8.547	1.00	30.09	6	
<u>c</u> ↓		AL_	A	5	_	35.310	22.034	7.817	1.00	29.51	6	
<u>ç</u>	_	AL	A	5	_	33.080	22.523	8.810	1.00	26.99	6	
<u>ç </u>		AL_	A	5		36.599	23.850	9.731	1.00	34.05	6	
\circ	٧	AL.	Α	5	Ш	36,949	24.879	9.153	1.00	33.97	8	

Figure 1 - 3

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10	ILE	14	_				1.00		
N	SER	_	_				1.00	59.16	17
C/	_	_	_				1.00	61.00	6
CI							3 1.00	61.46	6
lo	SER	_	_	38.215			1.00	63.02	8
C	SER		46	39.286	23,007	-8,261	1.00	62.26	6
lo.	SER		<u> 16</u>	38.203	23.459	-7.890	1.00	62.61	8
N	ARG	LA	6	40.389	23.749		1.00		7
CA	LARG	ЦΑ	6	40.391	25,163		1.00		6
CE	ARG	LA	<u> 6</u>	41.798	25.733		1.00		6
C	ARG	LA	6	42.847	24,781	-7.312	1.00	_	6
	ARG		6	43.965	24,570		1.00		6
N	ARG		6	44.571	23.249	-8.210	1.00		17
CZ			6	45.874	23.006	-8.289	1.00		_
N	ARG	_	6	46.737	23.996				16
N	ARG	_	6	46.327	21.764	-8.481	1.00		17
C	ARG	_	6	39.578	25,952	-8.173	1.00		17
lŏ	ARG		6	38.912	26.929	-9.003	1.00		6
N	LYS	A	6			-8.665	1.00		18
CA		_		39.621	25.512	-10.259	1.00	62.41	17
	LYS	₽	16	38.838	26.122	-11.323	1.00	61.01	6
CB		₽	6	39.078	25.442	-12.667	1.00	64.05	6
15	LYS	ĮĄ.	16	40.473	25.584	-13.247	1.00	67.89	16
15	LYS	ļΑ	16	40.692	24,601	-14.390	1.00	70.27	6
CE		ļ٨	16	42.115	24.069	-14.405	1.00	72.41	16
NZ		ļ٨	6	42,174	22.613	-14,094	1.00	73.35	17
Ç	LYS	A	6	37.355	25.994	-10.959	1.00	59.05	6
0	LYS	ĻΑ.	6	36.623	26,977	-10.893	1.00	59.16	8
N	GLU	ļA.	16	36,933	24,768	-10.663	1.00	56.50	7
CA	GLU	A	16	35.560	24.458	-10.303	1.00	54.00	6
LCB	GLU	₽.	16	35.351	22,937	-10.348	1.00	53.27	6
C	GLU	J٨.	6	35.135	22,410	-11.759	1.00	52,23	6
C	GLU	LA.	6	33,753	22,724	-12.296	1.00	51.74	6
0	GLU	A	6	33.652	23.202	-13.444	1.00	49.51	8
0	GLU	A	6	32,764	22.494	-11.571	1,00	52.67	8
С	GLU	A	6	35.113	25.008	-8.961	1.00	52.28	6
0	GLU	Α	6	33.929	25.285	-8,749	1.00	51.71	8
N	GLN	A	6	36.032	25.227	-8.034	1.00	50.86	7
CA	GLN	A	6	35,780	25.773	-6.715	1.00	49.27	6
CB	GLN	A	6	37.107	25.821				
C	GLN	Â	6	37.061	25.384	-5.948	1.00	49.56	6
Č.	GLN	À	6	38.460		4.497	1.00	50.72	6
ŏ	GLN	A			25.262	-3.918	1.00	51.56	6
N	GLN	A	6	39.130	26,269	-3.682	1.00	51.87	8
		_	-	38.908	24.031	-3,700	1.00	50.91	7
<u>ç</u>	GLN	A.	6	35.184	27.173	-6.731	1.00	48.26	6
0	CLN	A.	6	34.447	27.566	-5.825	1.00	48.39	8
N	ARG	A	6	35.475	27.960	-7.756	1.00	47.26	7
ÇA	ARG	A	6	35.017	29,320	-7.939	1.00	45.38	6
СВ	ARG		6	35,835	29.966	-9.074	1.00	52.16	6
c	ARG	Α	6	35.884	31.480	-9.005	1.00	59.18	6
٥	ARG	Α	6	35.460	32.120	-10.317	1.00	65.00	6
N	ARG	A	6	34.851	33.429	-10.120	1.00	70.09	7.
CZ	ARG	A	6	35.477	34.531	-9.730	1.00	72.67	6
N	ARG	Ā	6	36.780	34.518	-9.476	1.00	73.94	7
N	ARC	Α	6	34 707	25.564	0.500	1.00	74.03	-

Figure 1 - 4

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İĈ	ARC						1.00	1 42.3	8 6
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C	LYS								_
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N2		TA	6					1 22.00	
C	LYS		_				1.00		
ŏ	LYS	A	6				1.00		
N	MET		17	31.148			1.00		
C.A		_	7	30.352			1.00		
CE		_	_	30.332			1.00		
C	MET		7	31.857		-5.527 -5.822	1.00	-	
SE		_	7	31.957	23.402	-5.704	1.00	35,12	
CF			7	31.529	22,901	-7.367	1.00	36.02	
C	MET		7	30.684	27.848	4.215	1.00	34.53 28.31	_
0	MET	ΪÀ	7	31.832	27.922	-3.787	1.00	28.11	8
N	ASP	ĪÃ	7	29.624	28.234	-3.503	1.00	25.95	7
CA	ASP	A	7	29.766	28,751	-2.143	1.00	23.65	16
CB		A	7	28.413	29.222	1.616	1.00	20.66	6
С	ASP	A	7	28.479	29.865	-0.246	1.00	22.27	6
0	ASP	A	17	28.312	29.143	0.762	1.00	21.88	8
0	ASP	ĪΑ	7	28.718	31.089	-0.170	1.00	21.04	8
С	ASP	IA	7	30.326	27,629	-1.273	1.00	22.62	6
0	ASP	LA	7	30.144	26.453	-1.603	1.00	22,32	8
N	ALA	Α	7	30.882	27.953	-0.115	1.00	21.68	7
CA	ALA	IA	7	31.389	26.979	0.831	1.00	21.95	6
CB	ALA	IA.	7	31.922	27.690	2.079	1.00	19.90	6
C	ALA	ļA.	7	30.380	25.920	1.251	1.00	22.22	6
0	ALA	I.A.	17	30.796	24.777	1.483	1.00	22.29	8
N	PHE	ļA.	7	29.093	26.236	1.373	1.00	22.19	7
CA	PHE	Į∧.	7	28.095	25.239	1.753	1.00	22,22	6
CB	PHE	ļĄ.	7	26.728	25.848	2.038	1.00	20.07	16
Ĕ	PHE	A	7	25.717	25.891	0.936	1.00	17.46	6
<u> </u>	PHE	 ♠	7	24.749	24.907	0.811	1.00	18.74	16
C	PHE	ļĄ.	17	25.726	26.918	0.006	1.00	17.25	6
CE	PHE	A	7	23.818	24.946	-0.210	1.00	18.48	6
CZ	PHE	A	7	24.806	26,962	-1.024	1.00	12,10	6
C	PHE	Â	7	23.842	25,981	1.126	1.00	15.15	6
ŏ	PHE	A	7	28.014	24.132 22.958	0.705	1.00	22,32	5
N	ILE	A	7	28.084	24.484	1.064 -0.574	1.00	22.55	8 7
CA	ILE	Ā	7	28.084	23.492		7.7.	22.33 22.84	-
CB	ILE	A	7	27.881	24.146	-1.645 -3.022	1.00	23.95	6
C	ILE	Â	7	28.144	23.175	-4.164	1.00	24.20	6
Č	ILE	A	7	26.451	24.694	-3.121	1.00	21.72	6
C	ILE	A	7	26.260	25.703	4.232	1.00	20.39	6
С	ILE	Α	7	29.365	22.667	-1.611	1.00	22.04	6
0	ILE	A	7	29.318	21.448	-1.777	1.00	20.83	8
N	GLN	A	7	30.501	23.312	-1.36-1	1.00	22.64	7
CA	GLN	Α	7	31,777	22.612	-1.257	1.00	23.44	6
СВ	GLN	Α	7	32.923	23.597	-1.047	1.00	25.82	6
C_	GLN	A	7	33.158	24.544	-2.211	1.00	29.28	6
C	GLN	A	7	34.326	25.483	1.984	1.00	31.36	6
0	GLN	Α	7	35.184	25.241	.1.131	1.00	33.44	8
N	GLN	Ā	7	34.369	26.565	-2,755	1.00	28.85	7
C	GLN	A	7	31.730	21.592	-0.122		23.75	6
0	GLN	A	7	32.095	20.428	-0.314	_	24.15	8
N	TYR	A	7	31,209	21.984	1.038		23.05	7
CA	TYR	A	7	31.025		2.151	1.00	23.66	6
CB	TYR	A	7	30,436		3.365		23.91	6
C I	TYR	A.	7	31,303	22,775	4.083	1.00	24.75	6

					.,			_	
С	TYR			30.779			1.00	25.10	√ <u>6</u>
CE				131.538			1.00	25.02	6
C	TYR			32.615			1.00	25.66	6
CE				33.382	23,97		1.00	25.67	6
CZ				32.335			1.00		16
6	TYR		47	33.592			1.00		
ř	TYR		_	30.106	19.90		1.00		
0	TYR	_	_	30.406	18.74		1.00	_	_
N	GLY		47	28.986	20.218		1.00		_
CA	GLY	$\overline{}$	_	28.018	19.230		1.00		16
Č	GLY		17	28,588	18.158		1.00		6
0	GLY	4	47	28.290	16.977		1.00		18
N CA	ILE	ļĄ	17	29.369	18.551		1.00		17
	ILE	- ↑	17	29.975	17.602		1.00		6
CB C		٦Ą	+7	30.674	18.315		1.00		6
	ILE	ļ٨	17	31.383	17.316		1.00		6
č-	ILE	ļ٨	12	29.645	19.119		1.00		16
č	ILE	٦Ą	17	30.230	20.052		1.00		6
<u>c</u>	ILE	₽	17	30.945	16.669		1.00		6
N	ILE	₽	7	30.797	15.447	-1.504	1.00		8
	VAL	₽¥.	17	31.896	17.231	-0.691	1.00	25.62	17
CA	VAL	₽	17	32.878	16.438		1.00		6
CB C	VAL	₽.	7	33.812	17,327		1.00	22.69	16
c	VAL	۱Ą	7	34.663	16.522	1.851	1.00	21.61	16
č	YAL	1A	7	34.714	18.139	-0.045	1.00	22.34	6
ö	VAL	A	17	32,199	15.387	0.909	1.00	26.06	6
N	ALA	A	8	32.502 31.232	14.198	0.786 1.731	1.00	27.16	8
CA	ALA	A	8	30.483	15.783		1.00	26.43	17
CB	ALA	Ä	8	29.549	14.846 15.590	2.558 3.500	1.00	26.69	6
Ç	ALA	A	8	29.689	13.857	1.711	1.00	25.12 27.31	6
ŏ	ALA	Ā	8	29.503	12.707	2.112	1.00		6
N	GLY	A	8	29.198	14.295	0.555	1.00	26.33 28.24	7
CA	GLY	A	8	28,478	13.434	-0.370	1.00	29.83	6
٦	GLY	IA	8	29.401	12.376	-0.965	1.00	31.54	6
0	GLY	IA	8	29.058	11.195	-1.014	1.00	32.46	8
И	VAL	Α	8	30.606	12.785	-1.357	1.00	32.13	7
CA	VAL	ΙÀ	8	31.593	11.855	-1.897	1.00	32.49	6
CB	VAL	A	8	32.849	12.576	-2.405	1.00	32.48	6
C	VAL,	A	8	33.927	11.590	-2.836	1.00	29.55	6
ဌ	VAL	IA.	8	32,485	13,493	-3.570	1.00	30.84	6
c	VAL	A	8	31,945	10.798	-0.859	1.00	33.38	6
0	VAL	IA.	8	31.960	9.607	-1.179	1.00	34.11	8
<u> </u>	GLN	A.	8	32.121	11,195	0.397	1.00	33.20	7
CA	GLN	A	8	32,353	10.260	1.485	1.00	33.16	6
CB	GLN	A.	8	32,487	10.995	2.822	1.00	33.36	6
<u>- </u>	GLN	A.	8	33.776	11.775	3.007	1.00	34.15	6
<u>c</u>	GLN	Α	8	33.891	12.385	4.389	1.00	35.18	6
0	GLN	А	8	33,162	12.014	5.309	1.00	35.45	8
7	GLN	A	8	34.810	13.330	4.554	1.00	35.50	7
<u> </u>	GLN	A	8	31.240	9.224	1.602	1.00	33.48	6
? +	GLN	A	8	31.521	8.034	1.758	1.00	33.91	8
1	ALA .	A	8	29,982	9.655	1.539	1.00	33.54	7
ZA L	ALA	A	8	28.854	8.740	1.660	1.00	33.80	6
<u> </u>	ALA	Ą	8	27.554	9.509	1.828	1.00	32.23	6
-	ALA	A	8	28.767	7,777	0.484	1.00	34.48	6
?	ALA	Ą	8	28.464	6.596	0.673	1.00	34.17	8
	MET	Ą	8	29.032	8.262	-0.724	1.00	35.38	7
	MET	A	8	29.047	7.401	-1.902	1.00	36.89	6
CBI	MET	A	8	29.234	8.228	3.172	1.00	39.17	6
	MET I	A	8	27,977	8.960	-3.621	1.00	41.02	6
2		_							_
C SD	MET	A	8	26.540	7.880	-3.753	1.00	43.01	\Box
C SD CE		_	8 8		7.880 7.818 6.340		1.00 1.00	43.01 43.92	_

(-	Τ.			_	7.2				_	_		_		_	_
N		JE:		_	19		9.87			-1.919		20	37.	_	18
Ċ		<u>JL:</u> JL:		A	8		1.338		_	-1.397		_		<u> 37</u>	17
C		;L;		A	8		2.462 3.741		_	1,192		_	38.		6
C		;L;		A	8		1.320			-0.925			39.		16
Č		L:		A	8		5.553		_		_	_	41.		6
ō		; <u>.</u>	_	A	8		965			-1.924 -0.781		9	44.		6
N		iL)	_	A	8		3.170			-2.991	11.0	0	48.		8
c		L		A	8		195			-0.077	_	_	45.	_	7
Ö	_	L	_	Ä	8		309			-0.293	1.0	의	38. 38.		6
N		SP		Ä	8		.705			1.071	1.0		38.	_	8
C		SP		Ā	8		.356			2.171	11.0		38.		6
C		SP		Ā	8		.800			3.364	1.0	_	35.9		6
C		SP		Ā	8	_	.769			4.627	1.0		34.8		6
O		SP		Ā	8		.730			4.836	1.0	_	38.		8
O	Į,	SP	T	A	8		.807	4.473		5.413	1.0		32.4		8
C	\perp_{A}	SP	Τ.	Ā	8		.338	3.362		1.785	1.0		39.1		6
0	ΙĀ	SP		A	8		418	2.228		2,261	1.0	_	39.		8
N	S	ER	L	A	8		341	3,717	_	0.987	1.0	_	40.0		7
CA	<u> Is</u>	ER	1	A.	8	28	.268	2.824		0.605	1.0	_	40.9		6
CE	<u> 3 S</u>	ĖR	1	Α.	8	27	186	3.609		-0.151	1.0	o [37.7		6
0	<u> S</u>	ER	4	A.	8		641	3.995		-1.435	1.0	_	34.0		8
IC.		ER	4	A.	8	28	.687	1.626	\Box	-0.235	1.0	ΣĪ	42.8	6	6
0		<u>er</u>	_	A.	8		.158	0.529		-0.031	1.00	Σĺ	42.4	2	8
N		LY	_	Щ	8		<u>.572</u>	1.835	4	-1.203	1.00	<u>l</u>	44.7	8	7
LC9		LY		4	8		933	0.745	4	-2.114	1.00		47.7		6
Š		LY		Ч	8		791	0.593	4	-3.124	1.00		49.7		6
18		LY	_	Ч	8		100	-0.420	4	-3.181	1.00	_	<u>50.7</u>		8
N N		EŲ		١.	9		528	1.689	4	-3.826	1.00		51.0		7
CB	_	<u>EU</u>		4	9		<u>506</u>	1.717	+	4.861	1.00	_	<u>52.3</u>		6
C		EU EU	1	_	9		<u>528</u> 057	2.868	+	4.677	1.00		54.1		6
Č		Ü		_	9		486	2,570	+	4.394	1.00	_	54.8		6
Č		įυ	12	_	9		900 866	1.519 2.145	+	-5.334 -2.943	1.00		54.5		6
č		Ü	1		9		206	1.842	+	-6.216	1.00		55.7		6
ŏ		U	Á	-	9	29		2.691	+	-6.384	1.00		53.1. 52.8		6 8
N	-	LŪ	À	_	9		909	0.911	$^{+}$	-7.112	1.00		54.30		7
CA	_	U	IA	_	9		436	1.005		8.474	1.00		55.5		6
CB			ĪΑ		9	28.		-0.344		8.989	1.00	7	50.5		6
C	GI	Ü	ĪΑ	П	9	30.		-0.937		8.213	1,00	_	56.39		6
C	GI	U	LA	Л	9	31.	198	-1,433		9.104	1.00		70.22		6
0	G	Ū	L۵	П	9	30.9	912	-2.114		10.113	1.00		71.43		8
0	GI	U	LA	Ŀ	9	32.	375	-1.147		8.797	1.00		72.65		8
C_	GI		ļΔ		9	27.3	323	1.595	Ŀ	9.339	1.00	L	4.98		6
<u> </u>	GI		AĻ		9	26.2	219	1.047	Ŀ	9.355	1.00	5	4.62		8
N	111		ļΑ		9	27.5		2,756		9.933	1.00	15	4.70	Ψ.	ᄀ
CA.	IL		ļĄ.		9	26.5		3,400		10.753	1.00		4.44		긻
CB	III.		ļĄ		2	26.5		4.926		10,595	1.00		3.38		ᅬ
Ç.	IL.		A		9	25.6		5.601		11.642	1.00		2.58		_
č	IL		A		2	26.0		5.304		9.195	1.00		3.52		_
Ç.	111		A		싁	27.1		5.719		3,239	1.00		3.86		_
<u>с</u>	ILI		Á		7	26.7		2.992	÷	12.2.2	1.00		4.48		
z Z	TH		A	1	1	27.7		3,308		12.864	1.00	-	3.82		
CA	TH		A	١	_	25.7 25.7		2.226	_	12.698	1.00		5,02	42	
CB	TH	_	A	1		25.5		0.214	7	14.070	1.00		6.18	15	_
Ö	TH		A	9	_	25.5 24.2		0.214 -0.107		14.128	1.00		3.64	+6	
c	TH		A	1		26.6		-0.107 -0.524		13.563	1.00		1.69	녆	_
č	TH		Ā	9		<u> 20.0</u> 24.6		2.378		13.365 14.854	1.00 1.00		<u>1.89</u> 7.86	6	
ŏ	TH		Ā	İŝ		23.6		2.897		4.274	1.00	Ī	<u>7.86</u> 7.93	_	_
N	GL		Ā	19		24.6		2,301		6.180	1.00		<u>7.93</u> 9.43	17	
CA	GL		Ā	19	_	23.6		2.847	7	7.050	1.00		0.73	6	Н
CB	GL		Ä	9		23.9		2.595		8.517	1.00		4.29	6	1
C	GL		Ā	9	_	22.9		3.011		9.515	1.00		7.99	16	1
		_	_	_			_		_			_			_

_				_											
C	GL	U	Αļ	9	23.35		4.138	3	-20.43	31	1.0	0	70.	30	6
0	GL	U L	A	9_	22.55	2	5.077	7	-20.63		1.0	_	70.		8
0	GL	じし	Αl	9	24.48	4	4.092	?	-20.95		1.0		72.		8
C	GL	U L	Αĺ	9	22.26	1	2.275	-	-16.72		1.0		60.		6
0	l GL	U	AΙ	9	21.24	6	2.969	_	-16.82		1.0	_	60.		8
N	GLI	U i .	AΤ	9	22.18		1.025		-16.28			ō	60.		7
C	A GLI	U I	A	9	20.97	_	0.362		-15.86		_	o.	_	_	_
C		_		9	21.14		-1.16		-15.97		_	_	59.		6
С	GL		_	9	20.576		-1.74	_			1.0		65.		6
Ċ	GL			9	21.420	_	-2.86		-17.25		1.0		70.		6
Ιŏ	GL			9	21.21				-17.83		1.0	_	73.	_	6
ŏ	GLU	_		9			-4.03	_	-17.45		1.0	7	74.		8
_		_	_		22.302		-2.564	ч	-18.67		1.0	_	74.9		8
Ç	44	_		9	20.570		0.709	4	<u>-14.43</u>		1.0	인	<u>57.′</u>	78_	6
10	GLU	_	_	9	19.505		0.300	4	-13.96		1.0	ᅁ	58.2	25	8
N	AS			2	21,403		1.442	4	-13.70		1.0	<u>0 </u>	55.2	25_	7
C/				24	21.154		1.857	_	-12.34	5	1.0	0	52.4	18	6
CE		_		24	22,436	ட	1.692		-11.50	9	1.0	0	52.3	33	6
C	ASN		كلة	2	22,256	╚	0.836		-10.27	9	1.0	0	52.3		6
10	ASN		<u> </u>	2	21.147		0.414		-9.952		1.0	0	53.9		8
N	ASN		<u>A LS</u>	9	23.355		0.564	Ī	-9.584	╗	1.0		52.4		7
C	ASN		X LS	- [20.747		3.320	I	-12.20	9	1.00	_	50.2		6
0	ASN	L	Γ		19.918	П	3.684	7	-11.37		1.00		49.9		В
N	ALA	LIA	\	П	21.390		4.190	╛	-12.97	$\overline{}$	1.00	_	48.0		7
CA	ALA	J.A	ŢΩ	П	21.232		5.632	7	-12.89		1.00	_	46.0		6
CB	ALA	. I A	ΛÌs	, ,	21,670		6.263	1	-14.21		1.00		45.0		6
С	ALA	. A	_	_	19.837	┪	6.108	+	-12.53		1.00		44.3		6
0	ALA	A	_		19.606	7	6.801	+	-11.54		1.00				
N	THR		_	_	18.847	7	5,727	+	-13.31		1.00		43.6		8_
CA	THR		_		17.439	7	6.032	+					42.8		7
CB		_			16.725	+	5.210	+	-13,183		1.00		41.5		6
0	THR				16.719	+	6.004	+	-14.293		1.00		41.5		6
C	THR		9	_	15.307	+	4.783		<u>-15.494</u>		1.00		40.5		8
Č	THR		_	_		+			-13.985		1.00	_	41.6		6
ŏ	THR		9		16.812	+	5.788		11.826		1.00		40.4		6_
N	ARG		9		<u>15.785</u>	+	6.415		11.520		1.00		40.4		8
CA		_	9		<u> 17.337</u>		4.908		10.983	4	1.00		39,5		7
CB	ARG	 A	_		16.774		4.614		9.680	4	1.00	-	38.3°		6
	ARG	₽,	19		16.709		3.094	_	9.462	4	1,00		38.5		6
<u> </u>	ARG	إ ه	19	_	15.974		<u> 2.321</u>	Ļ.	10.544	4	1.00	13	37.03	<u>1</u>	6_
Ë-	ARG	₽	19		14.479		2.597		10.499	4	1.00	43	37.03		ப
N	ARG	ļΑ	19		13.865		2.041	Ŀ	9.300	1	1.00	نا	8.20	2.	7]
CZ	ARG	ļΑ	9		<u> 12.707</u>		2.430	Ŀ	8.785	⊥	1.00	Ŀ	8.63	ı	6
N	ARG	ĮA.	19		12,002	Į.	3.397	Ŀ	9.357	L	1.00	13	8.37		7
N	ARG	ĮA,	9	نإ	12,248	Į.	1.845	Ŀ	7.686	Γ	1.00] 3	8.97	7	7
<u>c</u>	ARG	ĮA.	19	44	7.523	Ľ	5.238	Ŀ	8.512	L	1.00	3	7.78	1	6
0_	ARG	ĮA.	9	41	7,180	Ŀ	1.972	Ŀ	7.356	T	1.00	3	8.19		в
א	ILE	IA.	11	L	8.586	Ŀ	5.988		8,777	_	.00		7.13		7
CA	ILE	IA.	11	L	9.341		6.642		7.716	_	.00	_	6.46	_	5
CB	ILE	A	11	12	0.835		.276		7.700	T	.00	_	8.03	_	5
C	ILE	A	l		1.468		.737		5.389	7	.00		6.28	_	5
C	ILE	A	1		1.072		.776		7.890		.00		7.64		
С	ILE	A	1		2.387	_	.447		3.564	H	_		8.13	16	_
С	ILE	A	1		9.222		160	7	7.839	H		,	_		_
0	ILE	A	1	_	9.502	7	.713_		3.904	Н			5.71	+5	
N	GLY	Ā	ì							-			5.52	18	
CA	GLY	A	lì	7-	8.822		0.272		3.756	_	.00		4.95	17	_
c	GLY		1	_	8.705		0.273		.771		.00		4.19	19	
ŏ	_	A		_	9.233		0.914		.493	_	.00		3.40	16	
	GLY	A	ļĻ		0.044		0.319		.781	μ			1,11	↓8	
N CA	ALA	A	₽		8.740		2.115		.193	_	.00		<u>.57</u>	17	_
CA	ALA	A.	1	$\overline{}$	9.184		2.858	4	.025	_	.00		2.34	6	Ц
<u>ÇB</u>	ALA	A.	1		0.373		3.728	4	.437	1	.00		0.70	16	╛
Ç.	ALA	Α.	1		8.123		3.747	_3	.390	1	.00	28	3.20	6	_
의	ALA	Α	1		7.177		4.224	4	.008	1	00	28	3.29	8	_
N	ALA	A	1	1	8.293	1	3.983	-2	.093	ı	.00	26	.43	7	J
CAL	ALA	Ā	1	1	7.403	1	4.814		.294		00		.90	6	٦

_					_				
C	B ALA	4	Ш	16.330	13.994	-0.604	1.00	20.94	6
1c	ALA	L A	Ш	18.266	15.578	-0.290		23.06	
0	<u> ملد</u>	هل	ш	18.438	15.176		1.00	22.58	
N	ILE	<u> </u>	<u> 1</u> 1	18.951	16.600		1.00	22.65	
C/	ALILE	_ A	\perp	19.890	17.384	-0,008	1.00	22.42	
CI	3 ILE		$oldsymbol{oldsymbol{eta}}$	21.308		-0.609	1.00	19.84	
C	ILE	ΠĀ	\perp_1	22.263	18.211	0.218	1.00	19.61	_
C	ILE	ĺΑ	li	21.846		-0.727	1.00	19.04	
С	ILE	TA	1	22.912	15.769	1.789	1.00	14.64	
C	ILE	ΙÃ	1	19.430	18.837	0.103	1.00	22.33	
ō	ILE	Ā	Ti	19.135	19.485	-0.912			_
N	GLY		i	19.398			1.00	22,91	18
CA			Ti		19.363	1.321	1.00	21.49	
1c			1	18.983	20.732	1.546	1.00	21.32	
10	GLY	14		19.985	21.571	2.326	1.00	21.77	
_	CLY	↓	++	21.116	21.201	2.619	1.00	20.74	. 8
N	SER	ļ٨	+1	19.526	22.767	2.663	1.00	22.27	17
CA		- -∆	11	20.263	23,779	3,400	1.00	22.50	16
CB		$\bot \Delta$	11	21.306	24.448	2,511	1.00	22.72	6
0	SER	ͺͺͿϪ	11	22.078	25.395	3.224	1.00	21.91	8
C	SER	A	11	19.248	24.811	3.895	1.00	22.77	6
0	SER	ĮA.	11	18.261	25.058	3.198	1.00	22,73	8
N	GLY	┸	11	19.473	25.393	5.062	1.00	22.84	7
CA	GLY	İΑ	1	18.557	26.368	5.619	1.00	23.14	6
C	GLY	<u>la</u>	11	18.683	27.762	5.036	1.00	23.90	6
0	GLY	I A	1	17.665	28.437	4.846	1.00	23.26	18
N	ILE	A	1	19.904	28.234	4.800	1.00	24.27	17
CA	ILE	A	Li	20.130	29.582	4.284	1.00	25.21	6
CB	ILE	A	1	20.904	30.424	5.317	1.00	28.84	6
С	ILE	IA	1	21.399	31.746	4.750	1.00	29.40	6
C	ILE	IA	1	20.025	30.718	6.544	1.00	30.94	6
C	ILE	A	1	20.804	31.053	7,796	1.00	32.04	6
С	ILE	A	lì	20.839	29.580	2.938	1.00	25.28	6
0	ILE	A	ì	20.712	30.527	2.153	1.00	25.17	8
N	GLY	Ā	î	21.587	28.527	2.623	1.00	25.28	7
CA	GLY	1 A	î	22.284	28.453	1.345	1.00	25,24	
C	GLY	A	1	23.457	29,418				6
Ŏ.	GLY	Â	1	24.083		1.274	1.00	25.63	
N	GLY	Ā	î	23.862	29,755	2.279	1.00	25.92	8
CA	GLY	A	l i	25.084		0.062	1.00	25,45	7
c	GLY	A	1		30,496	-0.218	1.00	26.20	6
ŏ	GLY	Â		25.213 25.522	31,934	0.223	1,00	27.33	6
N			ļ.		32.817	-0.585	1.00	27,71	8
CA	LEU	ļĄ.	ļ.	25,181	32,186	1.526	1.00	27.58	7
	LEU	A.	1	25.252	33.513	2.104	1.00	26.89	6
CB.	LEU	A	1	25,045	33,438	3.622	1.00	30.54	6
Ğ.	LEU	A.	1	23.844	34.161	4.225	1.00	33.04	6
Ç.	LEU	A.	ļ.	23.965	34.212	5.744	1.00	34.23	6
<u>c</u>	LEU	A	ļ.	23.678	35.565	3,670	1.00	31.51	6
Ç_	LEU	A	1	26.579	34.203	1.822		25.55	6
0_	LEU	A	1	26.623	35.387	1,493	1.00	24.44	8
N	GLY	Α	1	27.668	33,453	1.966	1.00	24.93	7
CA	GLY	Α	1	29.006	33.973	1.717	1.00	24.16	6
C	GLY	Α		29.109	34.602	0.333	1.00	23.21	6
0	GLY	A	1	29.471	35.771	0.215		22.61	8
И	LEU	Α	1	28,675	33.879	-0,696		23.12	7
CA	LEU	A	1	28.747	34,359	-2.069		23.32	6
СВ	LEU	A	1	28,713	33.180	-3.045		21.08	6
С	LEU	A	ì	30.015		3.794		22,62	6
č	LEU	A	ì	31.248		·2.917			6
č	LEU	A	i	29.986		4.396		21.29	_
č	LEU	Â	1	27.719				19.43	6
ŏ	LEU	Â	$\frac{1}{1}$	27.719		2.403		23.44	6
N	ILE	Â			36,253	3.288		23.38	8
		_	귀	26.586	35.477	1.707		22.94	7
CA	ILE	Ą	+	25.596		1.959		22.61	5
CB	ILE	Αl	11	24.235	36.235	1.314	1.00 2	22.78	6.

							-				
	С	ILE	: 1	AΤ	23.32	0 37.45	2 -1.351	1.0	0 20.6	ΩT	6
	C	ILE		A	23.55						6
	C	ILE			1 22,46					_	_
	Č	ILE									6
				•						_	6
	Q	ILE			25.96			1.0	0 21.7	9	8
	N.	GLI		_	26.848		9 <u> -0.332</u>	1.0	0 22.4	0 [7
	<u>ļ</u> C:		1	عله	27.490	39.01	9 0.209	1.0	0 23.9	0	6
	C	3 GL	ىلت	نلـ۸	23.076	<u>5- 38.73</u>	7 1.590	1.0	0 23.4	3 1	6
	l C	_i GLU	ر ا ز	A. I :	27.029	38.48		1.0			6
	C	GLU	_	A :			1 4.010	1.0			6
	0	GLU	_	A 1							
	Ō	GL						1.0		_	8
			- 1					1.0		_	8
	င	CLI		щ				1.0			6
	0	GLU		щ				1.00	25.6	<u>6 8</u>	8.
	N	GLU					5 -1.189	1.00	26.2	2 :	7]
	CA		I L	\mathbf{u}	30.525	39.052	2 -2.107	1.00	27.40	0 6	5
	CE	I GLU		LΙ	31.361	37.838		1.00			
	C	GLU	1 /	ΛĪ	32.500			1.00			_
	С	GLU			33.298			1.00		_	_
	O	GLU	-+-	_	34.033			_		_	
	0	GLU						1.00			
	-				33.191	36.575		1.00		_	_
	Ĭč	GLU			29.968			1.00	27.74	1 6	╝
	0	GLU		_	30.345		3.698	1.00	27.49) 8	╝
	Й	ASN		41	29.038	39,051	4.026	1.00	27.54	17	\Box
	CA	<u>LASN</u>	10	41	28.397	39.569	-5.223	1.00	27.47	7 6	П
	CB	LASN	<u> </u>	\perp_1	27.450	38.524	5.823	1.00			П
	LC	I ASN	LA		28.191	37,404		1.00			
	0	ASN	ΙA		28.773	37.602		1.00			
	N	ASN		Ji	28.168	36.214	-5.940	1.00			
	С	ASN	A	1	27.639	40.862				_	_
	ō	ASN	JA	Τì	27.674			1.00			
	N	HIS	A	H		41.763	-5.801	1.00	_		
				_	26,965	40.976	-3.811	1.00			4
	CA	HIS	₽A	41	26.266	42,219	-3.503	1.00			4
	CB		ļΑ	41	25.334	42.129	-2.295	1.00	26.18	6	┙.
	<u>C</u> _	HIS	IA.	11	24.463	43.353	-2.216	1.00	23.31	6	_1
	LC_	HIS	44	11	24.431	44.382	-1.343	1.00	22.00	6	7
	N.	HIS	.↓Α	11	23.484	43.614	-3.151	1.00	23.32	7	7
	CE	HIS	A	11	22.881	44,750	-2.852	1.00	23.34	6	7
į	N	HIS	IA	1	23.438	45.235	-1.755	1.00	23.46	17	7
	C_	HIS	A	1	27.290	43.339	-3.321	1.00	31.26	6	٦.
	0	HIS	A	Ti	27.141	44.417	3.898	1.00	31,42		٦.
i	Х	THR	A	Ti	28.382	43.048	-2.620			18	┨
i	CA	THR	A	11	29.466			1 2.00	32.61	17	4
ı	CB			-		44.011	-2.448	1.00	33.99	16	4
ì		THR	₽	11	30.580	43.428	1.562	1.00	34.40	16	4
ļ	<u>o</u> _	THR	ļĄ.	11	30.011	43.087	-0.288	1.00	33.02	8	4
I	č	THR	ļĄ	11	31,707	44.425	-1.345	1.00	35.33	6	1
ļ	C	THR	IA.	11	30.018	44.464	-3.792	1.00	34.89	16	1
ļ	0	THR	A	1	30.148	45.668	4.033	1.00	35.35	8	1
l	N	SER	I A	1	30.289	43,527	4.695	1.00	35.14	7	7
l	CA	SER	A	Ιī	30.726	43.862	-6.047	1.00	35.99	6	1
ſ	СВ	SER	A	Ιi	30.916	42.588	-6.870	1.00	35.21	6	1
ľ	0	SER	A	li	31.858	41,733					1
۱	č	SER	Ā	1			-6.236	1.00	37.30	8	4
۱	ŏ	_	7	_	29.734	44.807	-6.711	1.00	37.29	6	4
۱		SER	ļĄ.	1	30.092	45.918	-7.100	1.00	37.19	8	4
۱	N	LEU	ļĄ.	1	28.464	44.426	-6.777	1.00	38.61	7	۱.
	CA	LEU	ΙΑ.	1	27.411	45.250	-7.350	1.00	40.26	6	Ι,
	CB	LEU	A	1	26.054	44.565	-7.172	1.00	39.02	6	1
	c l	LEU	Α	ı	24.786	45.386	-7.405	1.00	37.46	6	7
•	c l	LEU	Α	1	24.538	45.621	-8,887	1.00	35.37	6	1
•	С	LEU	A	1	23.583	44.700	-6.770	1.00	34.67	6	1
	č	LEU	A	1	27.377	46.657	-6.775				t
-	ŏ	LEU	_	î				1.00	42.20	6	1
			À.	_	27,267	47.624	-7.535	1.00	42.75	8	ł
	N.	MET	A	1	27.473	46.815	-5,461	1.00	44.22	7	1
	CA I	MET'	Α.	11	27 AAR	1 AO 19A I	4 200	1 00 1	AC EO		

Figure 1 - 7

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CI			Щ				1.00	52.03	6
C	MET		Ш	26.067	48.225	2.680	1.00	57.93	
SI			ш	26.084	48.049	-0.886	1.00	64.29	
CI	E MET		Ш	26.407	49.739	-0.383	1.00		
C	MET	C A	Ш	28.613	49.012	-5.246	1.00		
0	<u> MET</u>	<u>C L A</u>	ĹΪ	28.443	50.220		1.00	47.31	8
N	ASN	L A	L	29.799	48.433		1.00	46.74	7
C/	ASN	ĪΑ	. 1 1		49,177		1.00	46.35	6
CE		A	Ti	32.214	48.573		1.00	45.88	6
С	ASN	_			48.660		1.00	45.33	_
ō	ASN	Ā	ī	32.794	47.836				6
N	ASN		7	31.462			1 2100	46.65	8
Ċ	ASN	_	1		49.639		1.00	44.11	7
ŏ	ASN	44	+	31.255	49,202	-7.277	1.00	45.75	6
N		+^	+:	32.177	49.917	-7.685	1.00	46.59	8_
	GLY	14	++	30.574	48.383	-8.072	1.00	44.74	17
CA	CLY	ĮĄ.	11	30.922	48.253	-9.474	1.00	43.33	6
C	GLY	↓ A	+1	29.781	48.197	-10.464	1.00	42.25	6
0	GLY	A	11	30.035	48.292	.11.671	1.00	42.48	18
N	GLY	ļΑ	11	28.543	48.053	-10.006	1.00	41.17	7
CA	GLY	ĻΔ	11	27.409	47.945	10.932	1.00	39.64	6
C	GLY	Į A	1	27.225	46.464	-11.262	1.00	38.72	6
	GLY	IA.	1	28.002	45.627	-10.801	1.00	38.34	8
N	PRO	<u>LA</u>	1	26.237	46.137	-12,085	1.00	38.22	7
C	PRO	LA.	11	25.259	47.111	.12.638	1.00	37.72	6
CA	PRO	LA.	<u>L</u>	25.895	44.772	-12.416	1.00	38.34	6
CB	L PRO	la.	li.	24.527	44.880	-13.095	1.00	38.14	6
C	PRO	ĪΑ	$\mathbf{I}_{\mathbf{I}}$	24.423	46.282	-13.571	1.00	37.58	6
С	PRO	$\mathbf{I}_{\mathbf{A}}$	I.	26.854	43.988	-13.281	1.00	39.14	6
0	PRO	A	1	26.795	42,750	-13.297	1.00	38.94	8
N	ARG	TA	1	27.801	44,631	-13.949	1.00	40.36	7
CA	ARG	IA	li	28.785	43.959	-14.785	1.00	41.09	6
CB	ARG	A	li	29.455	44.970	-15.724	1.00	46.18	6
C	ARG	A	lì	28.562	45.416	-16.872	1.00	50.28	6
C	ARG	A	Ti	29.350	45.527	-18.166	1.00	53.24	6
N	ARG	A	li	28.796	46.521	-19.076	1.00	55.29	7
CZ	ARG	A	lì	29.506	47,462	19.690	1.00	55.01	6
N	ARG	A	lî	30.816	47.556	19.497	1.00	55.03	7
N	ARG	A	lì	28.905	48.318	-20.505	1.00	55.60	7
С	ARG	A	1	29.845	43.225	13.977	1.00	40.64	6
ŏ	ARG	Â	1	30.548	42.358	-14.500			
N	LYS	Â	1	29.974	43.549		1.00	40.85	8
CA	LYS	Ā	ì	30.926		-12.695	1.00	39.68	7
CB	LYS	A	1		42.913	11.804	1.00	39.19	6
C	LYS	Â		31.481	43.917	-10.789	1.00	42,97	6
			1	32.320	45.016	-11.425	1.00	47.77	6
CE	LYS	A	1	33.497	45.393	-10.539	1.00	52.40	6
CE	LYS	A.	1	34.820	45.185	-11.258	1.00	54.77	6
NZ	LYS	A	1	35.931	44.909	10.304	1.00	56.71	7
C	LYS	A	1	30,302	41.719	-11.086	1.00	37.56	6
<u>o</u>	LYS	A	1	30.981	41.025	-10.330	1.00	37.63	8
N_	ILE	Α	1	29.011	41.485	-11.305	1.00	35.54	7
CA	ILE	Α	1	28.334	40.336	-10.731	1.00	33.68	6
CB	ILE	A	ı	26.801	40.387	-10.856	1.00	32.19	6
C	ILE	Α	1_	26.176	39.099	-10.324	1.00	29.64	6
C	ILE	Α	1_	26.240	41.601	-10.113	1.00	30.24	6
C	ILE	Α	1	24.751	41.810	-10.277	1.00	29.97	6
Ċ	ILE	A	1	28.840	39.071	-11.427	1.00	32.94	6
ŏ	ILE	A	ì	28.713	38.917	12.639	1.00	33.73	8
N	SER	Â	î	29.406	38,170	-10.638		32.07	7
CA	SER	Ā	1	29.892	36.905	11.172		- 7	_
СВ	SER	Â	1	30.316	35.998		2124	31.05	5
O O			+			-10,011		27.43	<u>-</u>
	SER	إ	÷	30.212	34.634	10.380		29.41	8
S-	SER	Ą	1	28.797	36.224	-11.978		30.95	6
0	SER	Ą	ب ا	27.666	36.067			30.37	8
N	PRO I	A I	ш	29.168	<u> 35.630 </u>	-13.110	1.00	31,19	7

	_												
	C	PR	oΙ	ΑI	1	30.522	35.72	5	-13.71	2 1.0	0 30.7	οT	6
	LC.	A PRO		A	1	28.262	34.85	1	-13.93	4 1.0			6
	CI	BIPRO	o L	Αĺ	1	29.075	34.51	Ιĺ	-15.17				6
	C	PRO	<u> </u>	<u> </u>	1	30.491	7 34.65	9	-14.77				6
	C	PRO	<u>)</u>	A	1	27.747	33.59	8.	-13.24	7 1.0	0 29.8	_	6
	0	PRO	<u> </u>	A.	1	26,717	33.04	0	-13.63	_		_	8
	N	PHI	Ε .	A L	1	28.418	33.12	2	-12.20				7
	CA	A PHI	E .	Αĺ	1	27.966	31.99	8 Í	-11.40				6
	CI			ΔĹ	1	29.165	31.13	4 I	-10.99				6
	C	PHI		A	1	30.000	30.70	7	-12.17				6
	C	PHI		4	1	31.285	31.19	7	-12.33	6 1.0			6
	C	PHI		41	1	29.496	29.82	<u> 3 </u>	-13.11	4 1.0	0 36.0	2	6
	CE			_	1	32.054		<u>5 </u>	-13.42	0 1.0	0 36.7	5 T	6
	CE			~	1	30.259		1	-14.20	0 1.0	0 37.4	7	6
	CZ			-	1	31.539		<u>)</u>	-14.35	2 1.0	0 37.10	<u> </u>	6
	C	PHI	_	_	1	27.152	32.40	7	-10.18	1.0	27.2	4	6
	Q.	PHE		_	1_	26.811	31.525	5	-9.391	1.0	26.69	9 [8
	N	PHI		_	L	26,728	33.662		-10.062	1.0	26.23	2	7
	CA				1_	25.921	34.075		-8.923	1.0	26,4	Ш	6_
	CE				<u>. </u>	25.261	35,452		<u>-9.115</u>	1.0			6
	Ë	PHE			<u>. </u>	24.327	35.782		-7.976	1.00	_		5_
	C	PHE			Ļ	24.822	36.022		6,707	1.00		_	<u> </u>
	CE	PHE	_	_	Ļ	22.957	35.816		8.173	1.00			5
	CE			_	_	23.971 22.102	36.306	_	5.657	1.00			
	CZ			_	_	22.608	36.097	_	7.126	1.00			
	C	PHE		_	_	24.866	36.346		5.865	1.00			_
	Ö	PHE				24.956	33.039 32.446		8.545 7.460	1.00			_
	N	VAL				23.859	32.828	_	7.469 9.381	1.00			_
	CA	VAL		1		22.756	31.927		9.077	1.00			_
	CB		IA	. 1	ũ	21.736	31.901		10.235				
	C	VAL		Ξi		20.575	30.962		9.955	1.00		É	
	C	VAL	ĪΑ	$\perp_{\mathbf{i}}$		21.217	33,306		10,508			16	
	С	VAL	⅃ል	$oldsymbol{\mathrm{I}}_{1}$		23.164	30.517	_	8.695	1,00		6	_
١	0	VAL	ŀΑ	L		22.904	30.055	L	7,578	1.00	26.10	8	_
i	N	PRO	┸	11	┙	23.845	29.785	_	9.572	1.00	25.98	7	
	C	PRO	₽.	41	4	24.205	30.252	Ŀ	10.939	1.00	25,42	6	
1	CA	PRO	Ļ٨	41	4	24.246	28.412	13	9.343	1.00	25.35	6	_
I	CB	PRO	₽4	+1	4	24.917	27.980		10.644	1.00	25.44	6	_
ı	č	PRO	₽¥	+1	4	24.556	28.987		11.666	1.00	25.60	16	┙
ı	č	PRO	ļ٨	+1	+	25.181	28.166		3.174	1.00	25.15	6	4
l	0	PRO	IA.	+!	+	25.336	27.030		7,712	1.00	24.38	8	4
l	N CA	SER	ļ٨	1	+	25.873	29.189	_	7.698	1.00	25.35	17	4
ŀ	CB	SER	۱Ÿ	1	+	26.777	29.098		5.572	1.00	25.73	16	4
ŀ	0	SER	A	╁	+	27.891	30.138	_	5.762	1.00	25.82	6	4
ŀ	Ċ.	SER	A	11	+	27.404 26.093	31.448 29.358	7	5,544	1.00	27.24	8	4
İ	ŏ	SER	A	11	+	26.650	29.026	$\overline{}$	197	1.00	26,25	6	\forall
۱	Й	THR	A	††	+	24.906	29.957		.255	1.00	26.94	7	H
۱	CA	THR	Â	Ħ	+	24.197	30.272		.027	1.00	26.36	-	┥
	CB	THR	Ā	Î	Ť	23.792	31.770		.031	1.00	26.23 24.90	6	1
	0	THR	A	lî		22.987	32.023		.189	1.00	25.09	8	1
	Ċ	THR	Ā	1		25.015	32.666		.056	1.00	25.45	6	1
	C	THR	A	lì	_	22.938	29,480		.728	1.00	25.83	6	1
	0	THR	A	1		22.611	29.341		.541	1.00	26.06	8	1
_	N.	ILE	Α	1		22.171	29.075	_	.734	1.00	25.78	7	7
	CA	ILE	Α	1	_	20.862	28.480		.459	1.00	25.48	6	1
	CB	ILE	Α	1	Γ	19.937	28.542		.682	1.00	28.32	6	1
	디	ILE	Α	ı	1	19.648	30.010		.995	1.00	28.81	6]
٠	ᄗ	ILE	A	1	_	20.538	27.838	-6	.894	1.00	29,07	6]
-	<u>c</u>	ILE	A	1		19.614	27.762	-8	.092	1.00	31,74	6	1
	<u>c</u>	ILE	A	1	-	20.950	27.095		849	1.00	25.16	6	
	의	ILE	A.	ļ.		21.805	26.258	4	121	1.00	25.27	8	J
	N I	VAI.	ıΔ	1	1 4	ו פוחחכ	25 025	•	OAE I	1 00	05 11		

_		<u> </u>							
LCA		4	ш	19.895	25.653	3 -2.121	1.00	25.35	<u>i</u> 6
CE			ш	18.603	25.780	-1.273	1.00		
C	VAL	ه ا	1	18.095	24.469	-0.709	1.00		
С	VAL	A	1	18.866	26.764	0.133	1.00		
C	1 VAL		ц	19.959	24.312	-2.815	1.00		
Q	VAL	LA	Ji	20.571	23.385		1.00		
N	ASN	A	\Box_1	19.368	-		1.00		
CA			Ti	19.357			1.00		
CB			Ti	18.105	22.748		1.00		
C	ASN		Τî	18.226			1.00		
Ŏ	ASN		Ti	18.291	24.859				
N	ASN	_	+				1.00		
c			_	18.316	23.019		1.00		
10	ASN		++	20.613	22.517		1.00		
_	ASN	.∤♠		20.701	21.419		1.00		
N	MET	_	11	21.630	23.371	-5.435	1.00		
CA	MET	_	1	22.850	23.139		1.00	26.58	6
CB			1	23.547	24.458	-6.529	1,00	27,98	6
C	MET	_	11	22.821	25.227	-7.629	1.00	32.05	6
SD	MET	A	11	22.346	24.205	-9.040	1.00	35.93	1
CE	MET	LA.	1	23.951	23.688	-9.643	1.00	36.90	1 6
C	MET	LA	1	23.777	22.099	-5.593	1.00	27,33	6
0	MET	IA	Li.	24.655	21.602	-6.317	1.00		8
N	VAL	IA	1	23.598	21.699	-4.337	1.00		7
CA	VAL	IA	l i	24,425	20,637	-3.771	1.00	27.35	6
CB	VAL	IA	Ιī	24.341	20.475	-2.251	1.00	27.90	6
C	VAL	IA	Īī	25,268	19.352	-1.785	1.00	25.87	6
С	VAL	A	li	24.698	21,767	-1.536	1.00	25.87	6
C	VAL	A	1	23.973	19.328	-4.435	1.00	27.41	6
0	VAL	IA	li	24.783	18.507	4.856	1.00	28.08	8
N	ALA	IA	lî	22,658	19.158	4.561	1.00	27.02	7
CA	ALA	Ä	li	22.079	17.988	-5.214	1.00	26.49	6
СВ	ALA	Ä	lì	20.598	17.856				_
C	ALA	Â	î	22.302		-4,897	1.00	21.24	6
ŏ	ALA		1		18.059	-6.723	1.00	26.51	16
N	GLY	ļĄ.	1	22.549	17.048	7.378	1.00	25.54	18
		ļ٨	-	22.291	19.270	-7.275	1.00	27.35	17
CA	GLY	A.	H-	22,623	19.479	-8.678	1.00	28.51	6
<u>ç</u>	GLY	ĮĄ.	ļ.	24.041	18,991	-8.970	1.00	29.26	6
<u> </u>	GLY	IA.	1	24,238	18,218	9.905	1.00	29.73	8
N.	HIS	ļĄ.	1	25.018	19.404	-8,172	1.00	30.44	7
CA	HIS	A	1	26.403	19.012	-8.362	1.00	31.50	6
CB	HIS	Α	1	27,347	19.828	-7.458	1.00	31.18	6
С	HIS	ļA.	1	27.723	21,121	-8.124	1.00	30.77	6
C	HIS	A	1	28.449	21.359	-9.242	1.00	29.89	6
N	HIS	LA.	1	27.298	22.347	-7.668	1.00	31.84	7
CE	HIS	A	L.	27.765	23.293	-8.467	1.00	31.24	6
N_	HIS	Α	1	28.464	22,719	-9.430	1.00	28.66	7
C	HIS	LA	1	26,666	17.528	-8.173	1.00	32.17	6
0_	HIS	A	l.	27.415	16.950	-8.967	1,00	31.93	8
Z	LEU	A	1	26.070	16.905	-7.163	1.00	33.38	7
CA	LEU	Α	1	26.284	15.480	-6.932	1.00	34.08	6
СВ	LEU	A	1	25.766	15.068	-5.555	1.00	33.94	6
С	LEU	À	1	26.696	15.347	4.370	1.00	35.38	6
Ç	LEU	Ā	ì	26.024	14.968	-3.059	1.00	33.09	6
č	LEU	Ā	1	28.019	14.607	-3.039 -4.510	1.00	35.09	
č	LEU	Â	1	25.667	14.626				6
ŏ	LEU		1			-8.032	1.00	34.56	6
		A		26.298	13.669	-8.492	1.00	34.56	8
N C	THR	Ą	1	24.459	14.963	-8.475	1.00	34.57	7
CA	THR	Ą	ļ.	23.785	14.223	-9.532	1.00	34.15	6
CB	THR	Ą	1	22.420	14.826	-9.914	1.00	29.47	6
<u> </u>	THR	Ą	1	22.582	16.220	-10.197	1.00	26.25	8
<u>c</u>	THR	Α	1	21.395	14.651	-8.809	1.00	24.88	6
<u>c</u>	THR	A	Ц	24.646	14.159	-10.792	1.00	35.65	6
0	THR	Α	1	24.850	13.081	-11.350	1.00	35,92	8
$N \perp$	ILE	A	1	25.147	15.306	-11,241	1.00	36.68	7

C	A ILE	. I A	11	26.035	15.369	-12.394	1.00	37.59	16
CI	3 ILE	\perp_{A}	11	26.478					
C	ILE			27.394	16.854				
C	ILE	T A		25.266					
C	ILE	A		25.565	19.186				
Č	ILE			27.283	14.521				_
ŏ	· ILE	T A		27,627	13.656				
N									
	MET		_	27.967	14.762				
C				29.175	14.047		_		
CI			_	29.616	14.468		1.00		6
C	MET	_	_	30.324	15.813		1.00		
SI			_	30.886	16.247	-7.581	1.00	42.12	1
CE			<u> 11</u>	32.332	15.198	-7.440	1.00	41.22	6
C	MET	ĻΑ	<u> </u>	29.056	12.531	-10.747	1.00		
0	MET	LΑ	\perp 1	29.979	11.880	-11.247	1.00	38.17	8
N	TYR	$\perp A$	1	27.984	11.945	-10.223	1.00	37.10	
CA	TYR	LA	Ti	27.818	10.501	-10.220			
CB	TYR	A		27.350	10.040		1.00		6
C	TYR	A	1	28.508	10.115	-7.843	1.00		6
C	TYR	A	1	28,715	11.251	-7.073	1.00		_
CE		Α	1	29,778	11.325	-6.193	1.00	36.74	6
C	TYR	Ā	11	29.399	9.058	-7.720	1.00		6
CE		IA	1	30.463	9.127	-6.840	1.00	36.65	_
CZ		TA	1	30.647	10.262			36.77	6
ŏ	TYR	TA	1	31.705	10.334	-6.080	1.00	36.77	6
č	TYR	A	1			-5.205	1.00	37.18	8
ŏ			_	26,857	9.974	-11.272	1.00	35.61	6
й	TYR	H٨	+	26.628	8.761	11.334	1.00	35.78	8
	GLY	₽	 !	26.245	10.850	-12.060	1.00	34.65	7
CA	GLY	ļĄ	11	25.277	10.432	13.063	1.00	33.62	16
č	GLY	ļ٨	4.	23.987	9.912	-12.443	1.00	33.64	16
<u>e</u>	GLY	₽¥	11	23.404	8.949	-12.947	1.00	32.91	18
N	LEU	ĮĄ.	1	23.524	10.551	-11.371	1.00	33,89	17
CA	LEU	ĮĄ.	╀-	22.277	10,155	-10.718	1.00	34.12	6
CB		Α	11	22.255	10.578	-9.253	1.00	34.78	6
C_	LEU	ļΑ	11	23,480	10.255	-8.399	1.00	36.43	6
C_	LEU	↓ A	11	23,386	10.932	-7.038	1.00	36.23	6
C	LEU	ĮA.	11	23.656	8.753	-8.225	1.00	36.82	6
C_	LEU	JA.	11	21,095	10.757	-11.474	1.00	34.20	6
0	LEU	İΑ	11	20.954	11.976	-11.573	1.00	34.71	8
N	ARG	A	11	20.275	9,896	-12.067	1.00	34.03	7
CA	ARG	A	1	19.162	10.333	-12.899	1.00	33,73	6
CB	LARG	A	li.	19.212	9.617	-14.255	1.00	37.33	6
С	ARG	A	li.	20.590	9.564	-14.892	1.00	39.93	6
С	ARG	A	li.	20.559	9.681	-16.405	1.00	45.40	6
N.	ARG	A	ī	19.555	8.819	-17.010	1.00	50.00	7
CZ	ARG	Α	ī	18.668	9.187	-17.925	1.00	52.17	6
N	ARG	A	ì	18.637	10.432	-18.380	1.00	53.86	7
N	ARG	A	î	17,795	8.302	-18.391	1.00	53.95	7
c	ARG	A	1	17.811	10.130	-12.228			$\overline{}$
ŏ	ARG	Â	1	16.766	10.130		1.00	32.95	6
N	GLY	A	ì	17.824		-12.826	1.00	32.75	8
	GLY	_			9.688	-10.975	1.00	32,29	7
CA		A	Ļ	16.593	9.481	-10.221	1.00	31.31	6
č	GLY	A	1	16.101	10.809	-9.649	1.00	30.98	6
ö	GLY	A.	1	16.608	11.580	-9.981	1.00	30.61	8
N.	PRO	A.	1	15.096	10.737	-8.780	1.00	30.29	7
C_	PRO	A	1	14.456	9,478	-8.332	1.00	30.09	6
CA	PRO	Α	1	14.509	11.909	-8.166	1.00	29.57	6
CB	PRO	A.	1	13.519	11.360	-7.154	1.00	29.77	6
c_	PRO	A	1	13.355	9.915	-7.418	1.00	29.79	6
C	PRO	A	1	15.533	12.807	-7.488	1.00	29.38	6
0	PRO	A	1	16,450	12,336	-6.817	1.00	28.41	8
N	SER	Α	1	15.356	14.118	-7.629	1.00	28.94	7
CA	SER	A	1	16.250	15.094	-7.023	1.00	27.53	6
CB	SER	A	1	17 149	15 708	8 103	3.00	20.57	-

O SER A 1 18.098 16.586 7.525 1.00 33.35 8 C SER A 1 14.883 17.041 7.7015 1.00 26.03 8 N ILE A 1 14.883 17.041 7.7015 1.00 26.03 8 N ILE A 1 14.873 17.320 4.297 1.00 25.01 6 6 6 6 6 6 6 6 6		T===								
SER	0	SER		41	18.098			1.00	33.35	8
N ILE A 15.474 16.244 4.995 1.00 26.03 7 CA ILE A 1 14.787 17.320 4.297 1.00 25.17 6 CB ILE A 1 13.482 16.951 3.579 1.00 22.35 6 C ILE A 1 13.650 15.714 2.691 1.00 22.55 6 C ILE A 1 13.650 15.714 2.691 1.00 22.55 6 C ILE A 1 13.650 15.714 2.691 1.00 22.55 6 C ILE A 1 15.709 17.968 3.259 1.00 25.23 6 C ILE A 1 15.709 17.968 3.259 1.00 25.23 6 C ILE A 1 15.709 17.968 3.259 1.00 25.23 6 C ILE A 1 15.775 19.131 2.791 1.00 23.50 6 C ILE A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 14.964 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 20.567 1.379 1.00 21.99 7 C ILE A 1 13.273 19.657 2.271 1.00 19.43 6 C ILE A 1 13.398 20.677 1.379 1.00 21.94 6 C ILE A 1 13.398 20.677 1.379 1.00 21.74 6 C ILE A 1 1.3240 20.363 3.253 1.00 15.87 6 C ILE A 1 1.801 17.553 21.25 1.00 15.87 6 C ILE A 1 1.801 17.553 21.25 1.00 15.87 6 C ILE A 1 1.398 20.677 1.379 1.00 21.42 7 C ILE A 1 1.394 20.363 3.253 1.00 22.41 8 N ALA A 1 1.4730 24.012 3.047 1.00 20.33 6 C ILE A 1 1.398 25.772 2.10 1.00 20.33 6 C ILE A 1 1.398 20.577 1.379 1.00 21.42 7 C ILE A 1 1.398 20.577 1.379 1.00 21.42 7 C ILE A 1 1.398 20.577 1.300 20.97 1.00 21.42 7 C ILE A 1 1.398 20.577 1.300 20.97 1.00 21.42 7 C ILE A 1 1.4732 21.721 2.00 2.00 2.33 6 C ILE A 1 1.4732	_			_		,	6.329	1.00		
CA ILE A 1 14.787 17.320 4.297 1.00 25.37 6 CB ILE A 1 13.482 16.951 3.579 1.00 24.96 6 C ILE A 1 13.685 15.714 2.691 1.00 22.35 6 C ILE A 1 13.685 15.714 2.691 1.00 12.35 6 C ILE A 1 13.685 15.714 2.691 1.00 12.35 6 C ILE A 1 15.709 17.968 3.259 1.00 22.35 6 C ILE A 1 15.709 17.968 3.259 1.00 22.35 6 C ILE A 1 15.709 17.968 3.259 1.00 22.35 7 CA SER A 1 15.272 19.131 2.791 1.00 23.95 7 CA SER A 1 15.975 19.891 1.776 1.00 23.95 7 CA SER A 1 15.975 19.891 1.776 1.00 23.95 7 CA SER A 1 14.954 20.529 0.830 1.00 22.54 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.958 20.083 0.422 1.00 21.74 6 C ILE A 1 13.988 20.677 1.379 1.00 12.74 6 C ILE A 1 13.988 20.677 1.379 1.00 12.74 6 C ILE A 1 13.988 20.677 1.379 1.00 12.74 6 C ILE A 1 13.985 20.383 3.253 1.00 18.21 6 C ILE A 1 12.435 18.680 1.394 1.00 15.47 6 C ILE A 1 13.891 17.555 1.251 1.00 19.43 6 C ILE A 1 13.891 17.555 1.251 1.00 19.43 6 C ILE A 1 13.891 17.555 1.00 18.21 6 C ILE A 1 13.981 21.710 1.00 19.43 6 C ILE A 1 13.891 17.555 1.00 18.21 6 C ILE A 1 13.981 22.771 2.212 1.00 19.83 6 C ILE A 1 13.891 17.555 1.00 18.87 6 C ILE A 1 13.891 17.555 1.00 18.21 6 C ILE A 1 13.998 20.401 3.05 1.00 18.21 6 C ILE A 1 13.998 20.997 1.00 2.00 22.41 8 N ALA A 1 14.136 22.994 1.00 2.033 6.00 18.21 6 C ILE A 1 13.891 23.797 5.336 1.00 18.29 6 C ALA A 1 14.136 22.994 1.00 1.00 22.41 8 N THR A 1 13.998 24.428 4.80 1.00 19.95 7 CA ALA A 1 14.930 24.091 3.005 1.00 18.29 6 C THR A 1 13.998 24.428 4.80 1.00 19.95 7 CA THR A 1 13.998 24.428 1.80 1.00 19.95 7 CA THR A 1 13.998 24.998 6.499 1.00 2.029 6 C THR A 1 14.905 25.476 7.453 1.00 20.29 6 C THR A 1 14.905 25.476 7.453 1.00 20.29 6 C THR A 1 14.995 20.388 8.990 1.00 20.29 6 C THR A 1 14.995 25.476 7.453 1.00 20.29 6 C THR A 1 16.634 22.994 6.499 1.00 20.33 6 C SER A 1 16.649 20.3888 3.990 1.00 22.36 6 C SER A 1 16.694 22.995 6.795 1.00 13.32 6 C THR A 1 14.995 20.389 1.00 22.38 6 C SER A 1 16.684 19.24 4.06 1.09 1.00 23.38 6 C SER A 1 16.684 19.24 4.00 1.00 20.00 7 CA SER A					14.883	17.041	-7.016	1.00	1 26.03	8
CB ILE A 1 13.482 16.951 3.579 1.00 24.96 6 C ILE A 1 12.331 16.776 4.559 1.00 22.35 6 C ILE A 1 13.650 15.714 2.691 1.00 22.54 6 C ILE A 1 12.538 15.627 1.610 1.00 19.83 6 C ILE A 1 12.588 15.627 1.610 1.00 19.83 6 C ILE A 1 15.709 17.968 3.259 1.00 22.37 6 O ILE A 1 15.709 17.968 3.259 1.00 22.35 6 O ILE A 1 15.775 19.131 2.791 1.00 23.50 6 C SER A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 14.954 20.952 2.374 1.00 22.56 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.295 20.083 0.422 1.00 21.99 7 CA ILE A 1 13.988 20.677 1.379 1.00 19.43 6 C ILE A 1 12.485 18.680 1.394 1.00 16.47 6 C ILE A 1 12.445 18.680 1.394 1.00 16.47 6 C ILE A 1 14.732 21.721 2.212 1.00 21.86 6 C ILE A 1 14.36 22.904 2.305 1.00 22.41 8 N ALA A 1 14.36 22.904 2.305 1.00 21.42 7 C C ILE A 1 14.732 21.721 2.105 1.00 10.653 6 C ALA A 1 14.36 22.904 2.305 1.00 16.53 6 C ILE A 1 14.730 24.012 3.047 1.00 22.31 8 N ALA A 1 14.905 22.904 2.305 1.00 1.653 6 C ALA A 1 15.082 25.172 2.105 1.00 16.53 6 C ALA A 1 15.908 25.172 2.105 1.00 10.653 6 C ALA A 1 15.908 25.172 2.105 1.00 10.053 6 C ALA A 1 15.908 25.172 2.105 1.00 10.053 6 C ALA A 1 15.908 25.172 2.105 1.00 10.053 6 C ALA A 1 15.908 25.172 2.105 1.00 10.053 6 C ALA A 1 15.908 23.995 3.700 20.937 8 N THR A 1 13.891 23.995 3.700 20.937 8 N THR A 1 14.965 23.8				_		16,244	4.995	1.00	26.03	7
C ILE A 1 12.331 16.776 4.559 1.00 22.35 6 C ILE A 1 13.650 15.714 2.691 1.00 22.54 6 C ILE A 1 15.709 17.988 3.259 1.00 22.32 6 O ILE A 1 15.709 17.988 3.259 1.00 22.32 6 O ILE A 1 15.705 17.988 3.259 1.00 22.32 6 O ILE A 1 15.705 19.891 1.776 1.00 23.50 6 C ILE A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 15.975 19.891 1.776 1.00 23.50 6 C SER A 1 14.941 20.529 0.830 1.00 22.76 6 O SER A 1 14.954 20.529 0.830 1.00 22.76 6 O SER A 1 14.954 20.529 0.830 1.00 22.76 6 O SER A 1 14.954 20.529 0.830 1.00 22.76 6 C SER A 1 14.954 10.555 1.00 13.60 1.00 19.83 6 C ILE A 1 13.988 20.677 1.379 1.00 21.99 7 CA ILE A 1 13.273 19.657 2.271 1.00 19.43 6 C ILE A 1 13.245 18.680 1.394 1.00 16.47 6 C ILE A 1 14.732 21.721 2.212 1.00 19.43 6 C ILE A 1 14.732 21.721 2.212 1.00 19.43 6 C ILE A 1 14.732 21.721 2.212 1.00 12.86 6 O ILE A 1 14.36 22.904 2.305 1.00 22.41 8 O ILE A 1 13.988 20.677 1.309 1.00 22.41 8 C ILE A 1 13.938 20.677 1.309 1.00 16.47 6 C ILE A 1 13.938 20.677 1.309 1.00 16.47 6 C ILE A 1 13.93 1.00 2.710 1.00 2.41 8 C ILE A 1 13.93 1.00 2.710 1.00 19.35 6 C ILE A 1 13.93 1.00 2.710 1.00 2.41 8 C ILE A 1 13.93 2.00 2.305 1.00 18.21 6 C ILE A 1 13.93 2.00 2.305 1.00 18.21 6 C ILE A 1 13.93 2.00 2.305 1.00 2.33 6 C ILE A 1 13.93 2.00 2.305 1.00 2.33 6 C ILE A 1 13.93 2.00 2.305 1.00 2.33 6 C ILE A 1 13.93 2.00 2.305 1.00 2.33 6 C ILE A 1 13.93 2.00 2.30 1.00 2.33 6 C ILE A 1 13.93 2.00 2.00 2.00 1.00 2.03 6 C ILE A 1 13.93 2.00 2.00 2.00 1.00 2.03 6 C ILE A 1 15.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	_			_	14.787	17.320	4.297	1.00	25.17	6
C	_	ILE	<u> </u>	<u> 1</u>	13.482	16.951	-3.579	1.00	124.96	6
C	C	ILE	_A	11	12.331	16,776	4.559	1.00	22.35	6
C	1c	LILE	\perp_{A}	11	113,650	15.714	-2.691	1.00		6
C	1C	LILE	LА	11	12.588	15.627	-1.610	1.00		
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N				1	13.798	24.428	4.180	1.00	19.82	6
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CB THR A 1 12.256 22.902 6.879 1.00 18.29 6 O THR A 1 13.009 21.692 6.725 1.00 17.31 8 C THR A 1 11.023 22.835 5.992 1.00 13.32 6 C THR A 1 14.011 24.514 7.684 1.00 20.40 6 O THR A 1 13.897 23.945 8.770 1.00 20.37 8 N ALA A 14.905 25.476 7.453 1.00 20.45 7 N ALA A 14.905 25.476 7.453 1.00 20.45 7 CA ALA A 14.946 25.976 8.530 1.00 21.02 6 CB ALA A 14.946 26.878 9.445 1.00 18.59 6 C ALA A 16.387 24.821 9.297 1.00 21.40 6 C ALA A 16.320 23.888 8.590 1.00 22.38 8 N CYS A 16.226 24.780 10.615 1.00 22.02 7 CA CYS A 16.442 24.074 12.957 1.00 21.11 6 CB CYS A 16.391 25.832 13.348 1.00 19.89 1 C CYS A 16.391 22.335 11.252 1.00 23.18 6 O CYS A 16.392 22.385 11.252 1.00 23.18 6 O CYS A 16.502 21.406 11.841 1.00 24.80 8 N THR A 15.163 22.137 10.504 1.00 23.36 7 CA THR A 14.602 20.807 10.288 1.00 22.40 6 CB THR A 12.460 94.91 10.627 1.00 22.49 6 O THR A 14.718 19.075 8.628 1.00 22.39 8 N SER A 16.515 20.237 8.938 1.00 10.284 6 O THR A 14.718 19.075 8.628 1.00 22.99 8 N SER A 16.510 20.37 5.928 1.00 22.99 8 N SER A 16.510 20.877 1.585 1.00 22.99 5 O SER A 16.510 20.877 1.585 1.00 20.00 7 CA SER A 16.510 20.837 5.935 1.00 17.46 6 O SER A 16.517 18.389 5.925 1.00 17.46 6 O SER A 16.5217 18.389 5.925 1.00 17.46 6 O SER A 16.527 18.389 5.925 1.00 17.46 6 O SER A 16.527 18.389 5.925 1.00 17.46 6 O SER A 16.527 18.389 5.925 1.00 17.46 6 O SER A 16.527 1.005 1.005 1.005 1.005						23.797	5.336	1.00	19.95	17
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O THR A 1 13.009 21.692 6.725 1.00 17.31 8	CB	THR	Ì٨.	1	12,256	22.902	6.879	1.00	18.29	6
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C	C_	THR	A	1	11.023	22.835	5.992	1.00	13.32	6
O THR A 1 13.897 23.945 8.770 1.00 20.37 8 N ALA A 1 14.905 25.476 7.453 1.00 20.45 7 CA ALA A 1 14.905 25.976 8.850 1.00 21.02 6 CB ALA A 1 14.946 26.878 9.445 1.00 18.59 6 C ALA A 1 16.920 23.888 8.590 1.00 21.36 8 N CYS A 1 16.226 24.780 10.615 1.00 22.26 6 CB CYS A 1 16.747 23.748 11.482 1.00 22.26 6 CB CYS A 1 16.442 24.074 12.957 1.00 21.11 6 CB CYS A 1 16.234 22.335 11.252 1.00 <td>C</td> <td>THR</td> <td>LA.</td> <td>1</td> <td>14.011</td> <td>24,514</td> <td>7,684</td> <td>1.00</td> <td></td> <td>6</td>	C	THR	LA.	1	14.011	24,514	7,684	1.00		6
N	0	THR	Α	1	13.897		8.770	1.00		8
CA ALA A 1 15.764 25.976 8.530 1.00 21.02 6 CB ALA A 1 14.946 26.878 9.445 1.00 18.59 6 C ALA A 1 16.920 23.888 8.690 1.00 21.38 8 N CYS A 1 16.226 24.780 10.615 1.00 22.02 7 CA CYS A 1 16.226 24.780 10.615 1.00 22.02 7 CA CYS A 1 16.226 24.780 10.615 1.00 22.02 7 CA CYS A 1 16.391 25.832 13.348 1.00 19.89 1 C CYS A 1 16.234 22.335 11.252 1.00 23.18 6 O CYS A 1 16.802 21.406 11.841 1.00 <td>N</td> <td>ALA</td> <td>Α</td> <td>1</td> <td>14.905</td> <td>25.476</td> <td>7.453</td> <td>1.00</td> <td></td> <td>7</td>	N	ALA	Α	1	14.905	25.476	7.453	1.00		7
CB AIA A 1 14.946 26.878 9.445 1.00 18.59 6 C AIA A 1 16.387 24.821 9.297 1.00 21.38 8 N CYS A 1 16.920 23.888 8.690 1.00 22.02 7 CA CYS A 1 16.920 24.780 10.615 1.00 22.02 7 CA CYS A 1 16.747 23.748 11.482 1.00 22.36 6 CB CYS A 1 16.391 25.832 13.348 1.00 19.89 1 C CYS A 1 16.391 25.832 13.348 1.00 19.89 6 C CYS A 1 16.234 22.335 11.252 1.00 23.18 6 O CYS A 1 16.592 21.406 11.341 1.00 <td>CA</td> <td>ALA</td> <td>A</td> <td>1</td> <td>15.764</td> <td>25.976</td> <td></td> <td>1.00</td> <td></td> <td>6</td>	CA	ALA	A	1	15.764	25.976		1.00		6
C ALA A 1 16.387 24.821 9.297 1.00 21.40 6 O ALA A 1 16.920 23.888 8.690 1.00 22.02 7 IN CYS A 1 16.262 24.780 10.615 1.00 22.02 7 CA CYS A 1 16.747 23.748 11.482 1.00 22.36 6 CB CYS A 1 16.442 24.074 12.957 1.00 21.11 6 CB CYS A 1 16.391 25.832 13.348 1.00 22.86 6 C CYS A 1 16.234 22.335 11.252 1.00 23.86 6 O CYS A 1 16.502 21.406 11.341 1.00 23.36 7 CA THR A 1 14.602 20.807 10.288 1.00 </td <td>CB</td> <td>ALA</td> <td>Α</td> <td>1</td> <td>14.946</td> <td>26.878</td> <td>9.445</td> <td></td> <td></td> <td></td>	CB	ALA	Α	1	14.946	26.878	9.445			
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C SER A 1 16.684 19.224 6.707 1.00 19.87 6 O SER A 1 16.217 18.389 5.928 1.00 19.12 8 N GLY A 1 17.724 18.954 7.490 1.00 20.89 7 CA GLY A 1 18.379 17.655 7.493 1.00 22.58 6							6.239	1.00		6
O SER A 1 16.217 18.389 5.928 1.00 19.12 8 N GLY A 1 17.724 18.954 7.490 1.00 20.89 7 CA GLY A 1 18.379 17.655 7.493 1.00 22.58 6										8
N GLY A 1 17.724 18.954 7.490 1.00 20.89 7 CA GLY A 1 18.379 17.655 7.493 1.00 22.58 6			_	_		19.224	6.707	1.00	19.87	6
CA GLY A 1 18.379 17.655 7.493 1.00 22.58 6			A	1	16.217		5.928	1.00	19.12	8
CA GLY A 1 18.379 17.655 7.493 1.00 22.58 6				1		18.954	7.490	1.00 T	20.89	7
	CA		A	ı	18.379		7.493	1.00	22.58	
	<u>C l</u>	GLY	ΑJ	1	17.412	16.513	7,766	1.00		6

ि	GLY	T.A	ΛĪ	17.502	15.461	7.132	1.00	24.80	8 (
N	VAL	A	_	16.529			1.00		
C		Ā		15.568			1.00		
CE		Ā			15.935				
C	VAL	Ā	l i	13.631	15.222				_
Č	I VAL	Ā	_				+ 0.0		_
C	VAL	I A		15.946	15.553		1.00		_
6				14.485	15.475		1.00		
_		44	41	14.045	14.351		1.00	27.98	
N	HIS	Į.	_	14.039	16.570		1.00		
CA		┸	41	12.999	16.512	6.424	1.00		
CE		ĮA.	41	12.453	17.908	6,120	1.00	23.96	∐ 6
C.	HIS	J∆	1	11.405	18.394	7.069	1.00	23.62	6
C	HIS	┸	41	10.606	17,745	7.947	1.00	22.84	6
N	HIS	LA	\perp_1	11.084	19.733	7.180	1,00		
CE	HIS	A	1	10.136	19.880		1.00		
И	HIS	A	1	9.828	18.691	8.571	1.00		7
C	HIS	A	1	13.505	15.866		1.00		6
0	HIS	IA	1	12.780	15.110		1.00		
N	ASN	ĪĀ	1	14.738	16.191	4.760	_		_
CA	ASN	TA	Τî	15.337	15.637	3.551	1.00		6
CB		TA	1	16.657	16.341	3.249			_
C	ASN	TA	1	16.509	17.666		1.00		16
o	ASN	↑ A	† 1	16.753		2.535	1.00		16
N	ASN	_	1		18.736	3.102	1.00		18
C		₽	╁	16,117	17.630	1.268	1.00		17
ō	ASN	ļĄ	++	15.532	14.131	3.684	1.00	_	16
	ASN	ļĄ	╁╇	15.091	13.358	2,832	1.00	23.06	18
N	ILE	ļĄ	+1	16.123	13.691	4.791	1.00	23.65	7
ĞΨ	ILE	ļĄ	11	16.336	12,273	5.057	1.00	24.37	6
CB		ļΑ	1	17.089	12.047	6.382	1.00	23.70	16
<u>c</u>	ILE	ļΔ	11	17.092	10.579	6.787	1.00	22.39	6
C	ILE	ĮÆ.	11	18.523	12.568	6.258	1.00	22.09	16
C	ILE	A	11	19,263	12.683	7.570	1.00	23.14	6
C	ILE	ĮA.	11	15.023	11.497	5.061	1.00	24.26	6
0	ILE	IA.	11	14.932	10.445	4.427	1.00	23.49	8
N_	GLY	IA.	1	14.012	11.997	5,762	1,00	24.58	7
CA	GLY	A	1	12.713	11.349	5.812	1.00	25.44	6
C	GLY	LA	1	11.980	11.315	4.479	1.00	25.99	6
0	GLY	A	l i	11.320	10.312	4.179	1.00	26.63	8
N	HIS	Α	li	12.080	12.365	3.659	1.00	25.24	7
CA	HIS	A	Li.	11.370	12.367	2.374	1.00	25,23	6
CB	HIS	Α	1	10.991	13.778	1.924	1.00	22.39	6
С	HIS	Α	ī	9.705	14.164	2.612	1.00	19.50	6
Ċ.	HIS	A	1	8.432	13.773	2.381	1.00	18.58	6
N_	HIS	A	Ĺ	9.662	14.997	3.705	1.00	19.92	7
CE	HIS	Ā	î	8.411	15.125	4.108	1.00	18.51	6
N	HIS	Â	1	7.645	14.391	3.321	1.00	18.63	
Ċ	HIS	Â	î	12.110	11.526				7
<u>~</u>	HIS	A	i	11.508	10.936	1.352	1.00	25.82	6
N_	ALA	Ā	1			0.451	1.00	25.77	8
			_	13,415	11.347	1.551	1.00	26.62	17
CA	ALA	Ą.	1	14.201	10.450	0.711	1.00	27.35	6
CB.	ALA	A	1	15.678	10.562	1.039	1.00	27.03	.6
č-	ALA .	A	1	13.708	9.019	0.957	1.00	27.92	6
0	AIA	Α.	IJ.	13,531	8,234	0.027	1.00	28.61	8
И	ALA	Α.	Ц	13.412	8.701	2.216	1.00	27.72	7
CA	ALA	A.	L_	12.864	7.411	2.605	1.00	28.34	6
CB	ALA	A	1	12.932	7.219	4.111	1,00	24.59	6
C	ALA	Α	1	11.434	7.241	2.103	1.00	28.66	6
0	ALA	Α	1	11.083	6,159	1.626	1.00	29.30	8
N	ARG	Α	1	10.626	8.298	2,173	1.00	28.76	7
CA	ARG	A	1	9.262	9.225	1.648	1.00	28.61	6
СВ	ARG	A	1	8.456	9.488	1.913	1.00	24.10	6
3	ARG	Ä	î	8.154	9.789	3.365	1.00	23.11	6
Ž	ARG	A	ì	7.081	8.881	3.938	1.00	24.33	_
. 	ARC	Ω.,	_	1.001	J.001	U.330	1,00	44.33	6

_	-,	_							
LC2		$\perp A$	4	6.668	19.071	6.379	1.00	25.51	6
N	ARG	44	41	7.531	8.100	6.653	1.00	25.70	17
N	ARG	A	1:	6.027	9.664	7.383	1.00	22.96	17
C	LARG	14	4	9.337	7.947	0.146	1.00	29.05	6
0	ARG	A	1	8.764	6.963	-0.322	1.00	28.83	18
N	ILE	A	11	10.175	8.700	-0.571	1.00	29.97	17
CA	ILE	LA	11	10.412	3.435	1.987	1.00	30.50	16
CB	ILE	A	1	11.472	9.361	-2.602	1.00	29.35	6
C	ILE	IA	1	11.847	8.928	-4.014	1.00	26.83	16
С	ILE	ĪΑ	Τį	10.983	10.815		1.00	30.12	6
С	ILE	Α	Ti	12.070	11.813		1.00	30.42	6
C	ILE	A	1	10.797	6.975	-2.206	1.00	31.59	16
0	ILE	TA	Ti	10.158	6.295	-3.013	1.00	31.73	8
N	ILE	A	1	11.810	6.481	1.498	1.00	32.37	7
CA	ILE	A	11	12.236	5.092	-1.645	1.00	33.03	6
CB		A	lî	13.463	4.776	-0.770	1.00	32.09	6
C	ILE	Ā	ti	13.683	3.280	-0.605			_
Č	ILE	Â	1	14.690			1.00	32.34	6
Č	_	_	_		5.435	-1.408	1.00	29.55	6
Č	ILE	 ↑	1	15,962	5.310	-0.614	1.00	26.75	6
6	ILE	 ↑	1	11.111	4.111	1.362	1.00	33,89	16
N	ILE	 ^	1	10.851	3.228	2.183	1.00	34.76	8
	ALA	₩.	 	10.379	4.296	-0.271	1.00	33.88	17
CA CB	ALA	ļĄ	ļļ.	9,267	3.434	0.091	1.00	35.05	6
		ļĄ	11	8.764	3.815	1.479	1.00	30.13	6
片	ALA	ļĄ.	1	8,117	3.463	-0.908	1.00	36.72	6
_	ALA	A	1	7.360	2.491	-1.009	1.00	37.70	8
N	TYR	A	1	7.950	4.554	1.642	1.00	37.34	7
CA	TYR.	ļĄ.	11	6.910	4.689	2.645	1.00	37.89	6
CB	TYR	A	11	6.661	6.171	-2.943	1.00	37.46	6
<u>ç</u>	TYR	ļĄ.	1	5.438	6.430	3.794	1.00	36.91	6
<u>c</u>	TYR	A	1	4.191	6.618	-3.212	1.00	36.65	6
CE	TYR	Į A	1	3.070	6.854	-3.986	1.00	36.32	6
Ç_	TYR	IA.	1	5.532	6.486	-5.177	1.00	36.28	6
CE	TYR	IA.	ļĻ.	4.418	6.719	-5.958	1.00	36.59	6
CZ	TYR	A	1	3.191	6.904	-5.358	1.00	36.47	6
<u></u>	TYR	A	1	2,083	7.139	-6.138	1.00	36.39	8
C_	TYR	Α	1	7.244	3.953	-3.937	1.00	38.42	6
0_	TYR	A	1	6.336	3.537	4.662	1.00	39.08	8
N.	GLY	A	1	8.529	3.812	4.248	1.00	38.49	7
CA	GLY	A	1	8.947	3.118	-5.455	1.00	38.13	6
C_	GLY	A	ı	9.594	4.021	-6.490	1.00	37.94	6
	GLY	А	ц	10.048	3.537	-7.533	1.00	38.16	8
N	ASP	А	1	9.750	5.307	-6.180	1.00	36.86	7
CA.	ASP	A	1	10.333	6.258	7.116	1.00	35.48	6
CB	ASP	A	1	9.949	7.697	-6.736	1.00	34.24	6
<u>C</u>	ASP	Α	1	8.548	8.026	-7.227	1.00	32.91	6
Q.	ASP	A	1	7.848	8.814	-6.560	1.00	32.83	8
0_	ASP	Α	1	8.162	7.483	-8.284	1.00	30.59	8
C	ASP	A	1	11.844	6.145	-7.234	1.00	34.86	6
0	ASP	Λ	1	12.424	6.574	-8.234	1.00	34.50	8
7	ALA	A	1	12.484	5.581	-6.218	1.00	34.49	7
CA	ALA	Α	1	13.930	5.407	-6.227	1.00	34.21	6
CB	ALA	A	1	14.610	6.650	-5.671	1.00	31.32	6
C	ALA	A	1	14.312	4.177	-5.410	1.00	34.14	6
0	ALA	ΑĪ	ī	13,507	3.693	-4.613	1.00	34.34	8
N	ASP	A	1	15.526	3.683	-5.622	1.00	34.11	7
CA	ASP I	A	ī	16.005	2.533	4.857	1.00	34.81	6
СВ	ASP	Ā	ì	16.571	1.432	-5.746		36.28	6
C.	ASP	Ä	1	15.495	0.778	-6.598		36.55	6
ŏ	ASP	Â	i	15.795	0.428	-7.758		37.03	8
ŏ	ASP	Â	î	14.356	0.633				_
č	ASP	Â	i	17.044	3.035	-6.106		36.08	8
ŏ	ASP	Â	1			3.854		34.37	6
N		_	뉘	17.037	2.673	-2.684		34.29	8
	VAL	A٠	1	17.900	3.937	4.321	1.00	34.24	7

C	VAL	. TA	I	18.917	4.578	-3.508	1.00	33.83	6
CE	VAL	$\int A$, I	20.345	4.287	-4.011	1.00		
С	VAL	. La	\Box_1	21.388		-3.114	1.00		
С	VAL	ΙA	. 11	20.639		-4,108	1.00		
С	VAL			18.733	6.096	-3.518	1.00		
О	VAL	LΙΑ	\Box 1	18.432	6.683	-4.555	1.00	_	_
N	MET			18.951	6.739	-2.378	1.00		
CA			Δì	18.937	8.186	-2.263	1.00	_	
CE				17.660		-1.631	1.00		
C	MET		1	16.342	8.551	-2.341	1.00		
SD			li	16.246	9.357	-3.946	1.00	_	
CE			Ti	15.597	10.961	-3.486	1.00		
C	MET		1	20.109	3.666	-1.395	1.00		_
0	MET		li	20.302	8.170	-0.284	1.00		8
N	VAL	A	lî	20.857	9.642	-1.890	1.00		7
CA		A	Τî	21.815	10.382		1.00	1	6
CB		A	li	22.956	11.026		1.00		6
C	VAL	A	1	24.149	11.320		1.00	1	6
Č	VAL	A	Τî	23.391	10.162	-3.041	1.00		_
Č	VAL	IÃ	Î	21.003	11.492	-0.394	1.00		6
ŏ	VAL	TÂ	lî	20,334	12.247	-1.103	1.00		8
N	ALA	Ā	î	21.009	11.563	0.927	1.00		17
ĊA	ALA	ĪĀ	Î	20.229	12.580	1.623	1.00		6
CB		Ā	lî	19.000	11.963	2.275	1.00	24.93	6
C	ALA	A	li	21.058	13.294	2.684	1.00	28.72	6
ŏ	ALA	Ā	lì	22.054	12.756	3.172	1.00	30.05	8
N	GLY	IA	li	20.628	14.502	3.037	1.00	27.99	7
CA	GLY	A	lî	21.336	15.263	4.055	1.00	27.29	6
С	GLY	A	ì	21.168	16,765	3.879	1.00	26.54	6
0	GLY	A	1	20.284	17.256	3.181	1.00	26.98	8
N	GLY	IA	1	22.058	17.494	4.543	1.00	25.00	7
CA	GLY	IA	1	22.044	18.947	4.497	1.00	23.84	6
С	GLY	A	l i	23.474	19.468	4.611	1.00	23.62	6
0_	GLY	ĪΑ	$\overline{1}$	24.391	18.762	5.026	1.00	23.67	8
N	ALA	IA	1	23,636	20.717	4.211	1.00	22.65	7
CA	ALA	A	l i	24.920	21.397	4.285	1.00	22.01	6
CB	ALA	IA	li.	25.707	21,264	3.001	1.00	20.15	6
c	ALA	Α	11	24.631	22,862	4.618	1.00	21.60	6
0	ALA	ĺΑ	1	23.618	23.403	4.182	1.00	21.84	8
N	GLU	A	l i	25.487	23,458	5.429	1.00	20,83	7
CA	GLU	IA.	1	25.319	24.851	5.816	1.00	19.89	6
CB	GLU	IA.	1	24.426	24.977	7.049	1.00	18.28	6
С	GLU	A	I	23.831	26.355	7.291	1.00	18.28	6
C	GLU	A	1	22,489	26.516	6.598	1.00	18.67	6
0	GLU	Α	ī	21.572	25.707	6,865	1.00	19.58	8
0_	GLU	A	1	22.362	27.441	5.773	1.00	16.71	8
c_	GLU	A	1	26,686	25,469	6.094	1.00	19.29	6
<u>0.</u>	GLU	A	1	27.621	24.801	6.521	1.00	18.97	8
N	LYS	A	1	26,786	26,757	5.833	1.00	19.94	7
CA	LYS	A	1	27.969	27.550	6,134	1.00	20.57	6
CB	LYS	A.	1	29.088	27.407	5.117	1.00	23.02	6
C	LYS	A	1	30.476	27.636	5.704	1.00	21.33	6
<u>c_</u>	LYS	A	ı	30.817	29.119	5,749	1.00	20,79	6
CE	LYS	A.	\exists	32.283	29.325	6.102	1.00	18.62	6
NZ	LYS	A	ı	32,453	30.430	7.087	1.00	22.09	7
c	LYS	Α	1	27.477	28.996	6.252	1.00	21.04	6
0	LYS	A	1	27.588	29.801	5.335	1.00	21.85	8
N	ALA	Α	1	26.826	29.254	7.380	1.00	21.26	7
CA	ALA	A	1	26.207	30.540	7.651	1.00	22.03	6
CB	ALA	Α	1	24.777	30.350	8.145	1.00	17.02	6
c	ALA	A	1	27.006	31.365	8.643	1.00	23.37	6
ᆈ	ALA	Α	1	26.490	32.344	9.197	1.00	25.73	8
N.	SER	Α	4	28.278	31.032	8.842	1.00	23.12	7
CA	SER	Α	1	29.124	31.824	9.733	1.00	23,49	6

CI	SISEF	ر ا	A .	30.18	7 30.97	10.425	1.00	22.54	16
0	SEF	<u> </u>	4 L 1	30.94	5 30.24	9.481	1.00		
C	SER	1 2	$\Delta \Box$	29.75	32.948	3 3.915	1.00		
0	SEF		ΔŪ	30.94			11.00		
N.	THE	2 /	\ I			_	1.00		
CA			_				1.00		_
CE		_	_				1.00		
0	THE		_	-			1.00		
C	THE			28.954			_		
C	THE	_	_				1.00		
ŏ	THE			28.827		$\overline{}$	1.00		
N		_	_	27.950			1.00		
	PRO	_		29.316	-		1.00		_
ļ <u>c</u>	PRO		_	30.360			1.00		
CA			_	28.891	38.718		1.00	25.09	16
CB	_	_	_	29.459		7.663	1.00		6
C	PRO	_		30,683		7.107	1.00	24,81	6
C	PRO	۵	41	1 27.385	38.854	8.766	1.00	26.19	6
0	<u>l Pro</u>	<u> </u>	$_{1}$	26,860	39.216	9.820	1.00	26.80	8
N	LEU	ĹA	\perp_1	25.649	38.559	7.699	1.00	26.66	7
CA	LEU	ΙĀ	\prod	25,198	38.611	7.668	1.00	26.40	6
СВ	LEU	IA	1	24.707	38.491	6.223	1.00	27.52	6
C.	LEU		1	23.511	39.326	5.775	1.00	28.54	6
C	LEU	A	Ti	23.621	40.777	6.217	1.00	27.00	_
C	LEU		1	23.355	39.254				6
Č	LEU		tì			4.261	1.00	28.22	6
ŏ	LEU	_	_	24.573	37.516	8,524	1.00	26.06	6
Z		₽	++	23.518	37,713	9.128	1.00	25.03	18
	GLY	₽¥.	1	25,215	36.352	8.563	1.00	26.14	17
CA	GLY	ĮĄ.	11	24.746	35.221	9.342	1.00	26.26	6
Ĕ	GLY	ĮĄ	44	24.916	35.436	10.841	1.00	26.88	16
<u> </u>	GLY	.↓Δ	11	23.988	35,190	11.616	1.00	26.92	181
N	VAL	IA.	11	26.104	35.869	11.257	1.00	27.33	17
ÇA	VAL	14	1	26.345	36,126	12.680	1.00	28.17	6
CB	VAL	ĮA.	11	27.834	36,302	13.000	1.00	29.36	6
C_	VAL	Α	li.	28.057	36,503	14.492	1.00	30.77	6
C	VAL	A	<u> 11</u>	28.629	35.096	12,516	1.00	29.20	6
LC_	VAL	ĺА	Lī.	25.536	37,351	13,100	1.00	27.85	6
0_	VAL	ĪA	\Box	24.751	37.307	14.046	1.00	27.96	8
N	GLY	IA	2	25.652	38,425	12.326	1.00	27.37	7
CA	GLY	A	2	24.911	39.646	12,580	1.00	27.30	6
С	GLY	Α	2	23.403	39.455	12.607	1.00	27.03	6
0	GLY	Α	2	22,738	39.970	13.505	1.00	27.08	8
N	GLY	A	2	22,838	38.762	11.627	1.00	26.23	7
CA	GLY	Ā	2	21.413	38.550	11.495	1.00	24.79	6
c	GLY	A	2	20.776	37.836	12,672			
ŏ	GLY	A	2	19.736				24.76	6
Z	PHE	Â	2		38,245	13.187	+	25.40	8
CA		_	2	21.406	36.755	13.116	1.00	24.57	7
	PHE	A	_	20.938	35.996	14.269	1.00	24.30	6
CB.	PHE	A.	2	21.573	34.611	14.314	1.00	22.09	6
ç	PHE	A.	2	20.910	33.583	13.445	1.00	21.81	6
C_	PHE	A	2	21.598	33.006	12.390	1.00	22.56	6
C	PHE	A	2	19.605	33.183	13.683	1.00	21.56	6
CE	PHE	A	2	20.998	32.056	11.585	1.00	20.56	6
CE	PHE	Α	2	18.998	32,232	12.885	1.00	21.92	6
CZ	PHE	LA.	2	19.699	31.668	11.835	1.00	20.90	6
C	PHE	Α	2	21.280	36.791	15.531	1.00	24.51	6
0	PHE	Α	2	20.522	36.827	16.493	1.00	23.72	8
N.	GLY	Α	2	22.385	37.529	15,481	1.00	25.54	7
CA	GLY	A	2	22,787	38.466	16.513		27.69	6
c i	GLY	A	2	21.755	39.569	16.716		29.46	6
ŏ	GLY	A	2	21.429	39.940	17.845			_
N	ALA		2					30.10	8
		Ą		21.197	40.082	15.625		30.15	7
SAI	ALA	A	2	20.195	41.129	15.617		30.95	6
CB	ALA.	A	2	19.958	41.606	14.186		31.39	6
c I	ALA	A	2	18.870	40.715	16.238	1.00	32.05	6

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N	ARC		_				1.00		_	٦
N	ARG	_		16.394			1.00			7
C	ARC			19.102			1.00			┪
Q	ARG		2	18.837			1 1.00			┪
N	ALA	_ LA	2	19.323			1.00	_	_	┪
CA	ALA	IA	2	19.103			1.00		_	1
CB	ALA	ĪΑ	2	18.494	33.973		1.00		_	┪
С	ALA	. A	2	20.396			1.00			٦
10	ALA	LA	2	20.383	32.573		1.00			٦
N	LEU		12	21.513	34.438	19.625	1.00	_		٦
CA	LEU		2	22.835	33.865	19.813	1.00			J
CB			2	23,775	34.494	18.780	1.00	30.13	6]
15	LEU		2	24.331	33.694	17,612	1.00	29.17	6]
ļ <u>c</u>	LEU		12	23.350	32.683	17.050	1.00		6]
5	LEU	ļĄ	12	24.784	34.649		1.00		6	┙
5	LEU	₽	12	23.417	34.124	21.197	1.00		16	1
N O	LEU	₽	2	23.197	35.180	21.784	1.00		18	4
CA	SER	A	2	24.209	33,171	21.687	1.00		17	4
CB		益	2	24.908 25.572	33.342 32.045	22.955	1.00		- 6	4
Ö	SER	A	2	26.593	32.316	23.409 24.358	1.00		6	┨
C	SER	Ā	2	25.975	34.425	22,784	1.00		18	ł
0	SER	A	2	26.492	34.504	21.680	1.00		8	1
N	THR	Ā	2	26.305	35.132	23.859	1.00	36.45	7	1
CA	THR	A	2	27.279	36,231	23,762	1.00	37.19	6	1
СВ	THR	A	2	26.537	37.561	23.962	1.00	39.54	6	1
0	THR	A	2	25.655	37.753	22.832	1.00	41.74	8	1
C	THR	IA	2	27.416	38.794	24.035	1.00	42.95	6	1
<u> </u> C_	THR	Α	2	28.441	36.006	24.708	1.00	36.70	6	1
0	THR	IA.	2	29.285	36.866	24.973	1.00	36.29	8]
N	ARG	Į₽.	2	28.636	34,756	25.133	1.00	36.20	7	I
CA.	ARG	ļA.	2	29.705	34.383	26.051	1.00	36.03	6	ļ
CB	ARG	14	2	29.360	33.028	26.690	1.00	35.31	6	ı
Ğ	ARG	ļĄ.	2	30.100	32,742	27,985	1.00	37.08	6	1
Ċ	ARG	ļĄ.	2	29.729	31,380	28.553	1.00	40,22	6	l
N CZ	ARG	ļĄ.	2	28.718	31.483	29.599	1.00	44.00	7	
	ARG	A	2	27.407	31,439	29.399	1.00	47.44	6	l
Z	ARG ARG	A	2	26.904	31.286	28.179	1.00	48.14	7	
Ĉ	ARG			26.581	31.547	30,433	1.00	48,31	7	
ŏ	ARG	A	2	31.085	34.338	25.417	1.00	36.15	6	l
N	ASN	Â	2	31.717 31.642	33.282 35.480	25.333 25.025	1.00	34.44	8	
CA	ASN	Â	2	32.943	35.576	24.394		37.86	7	
CB	ASN	A	2	33.150	36.977	23.797	1.00 1.00	40.94 43.10	6	
C	ASN	A	2	32.132	37.323	22.732	1.00	45.64	6	
Ō	ASN	À	$\tilde{2}$	32,199	36.833	21.602	1.00	48.03	8	
N	ASN	Ä	2	31.175	38,174	23.082	1.00	44.97	7	
С	ASN	Α	2	34.118	35.264	25.307	1.00	42.95	6	
ő	ASN	Ā	2	35.199	34.931	24.811	1.00	43.48	8	
N	ASP	Α	2	33.952	35.353	26.622	1.00	45.18	7	
CA	ASP	A	2	35,028	35.065	27.564	1.00	47.07	6	

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CB	ASP	<u> A</u>	12	34.667	35.50	28.983	1.00	53.38	6
C	ASP	ĺΑ	12	33.371	34.900	29.487	1.00		6
[0	LASP	A	1 2	32.291	35.360	29.058	1.00		
0	ASP	IA	12	33.426	33.965		1.00		18
C	ASP	A		35.396	33.585		1.00		6
0	ASP	I A		36.563	33.215		1.00		_
N	ASN		2	34.396	32.737		1.00		8
CA	ASN		2	34.589			_		_
CB		_	2		31.298		1.00		16
_			-		30.646		1.00		6
Ë	ASN			34.731	29,206		1.00		6
0	ASN		12	34.710	28.665		1.00		18
N.	ASN	ĻΑ	12	35.110	28.548		1.00	_	17
<u> </u>	ASN	ŲA	12	33,702	30.716	126,111	1.00	43.18	6
0	ASN	48	12	32.596	30.231	26.353	1.00	43.11	8
N	<u> PRO</u>	- ∆	12	34,198	30,724	24.877	1.00	41.75	7
LC_	PRO	₽.	12	35.503	31,329	24.497	1.00	41.44	6
CA	<u>l PRO</u>	LA	2	33.490	30.210	23.722	1.00	40.67	6
CB	PRO	A	2	34.468	30.398	22.564	1.00	40.80	6
C	PRO	ĪΑ	2	35.391	31.478	23.004	1.00	41.02	6
C	PRO	ĪĀ	12	33.042	28.763	23.813	1.00	39.35	6
0	PRO	TA.	2	31.944	28,425	23.353	1.00	38.82	8
N	GLN	Ā	2	33.830	27.881	24.419	1.00	37.99	7
CA	GLN	TÀ	12	33.509	26.472	24.546	1.00	36.26	6
CB	GLN	Ā	2	34.772	25.643	24.816	1.00	39.69	6
C	GLN	A	2	35.799	25.668	23,704	1.00	44.96	6
c_	GLN	Ä	2	37.042	26.454	24.073	1.00	48.84	6
ō	GLN	Ä	2	36.960	27.544	24.642	1.00	49.73	8
Ň	GLN	IÃ	2	38.202	25.894	23.745	1.00	51.41	7
Ċ	GLN	Â	2	32.499	26.138	25.635	1.00	34.32	6
o	GLN	Ā	2	32,096	24.976	25.739	1.00	32.80	8
N.	ALA	ΤÂ	2	32.114	27.094	26,466	1.00	33.94	7
CA	ALA	A	2	31.137	26.852	27.521	1,00	33.57	6
CB	ALA	Â	2	31.693	27.300	28.865	1.00	32.53	6
C	ALA	Â	2	29.837	27.588	27.213	1.00	33.31	6
ŏ	ALA	A	2	28.850	27,491	27.940	1.00	33.64	8
Ņ.	ALA	A	12	29.847	28.327	26.111	1.00	32,94	7
ĊA	ALA	Â	2	28.700	29.104	25.669	1.00	32.57	6
СВ	ALA	Ā	2	29.084	29,939	24.455	1.00	33.89	6
C	ALA	Ā	2	27,498	28.226	25.350	1.00	32.18	6
ō_	ALA	Â	2	26.384	28.515	25.790	1.00	32.82	8
Ň	SER	Ā	2	27.716	27.171	24.574	1.00	31.80	7
CA	SER	A	2	25,628	26.259	24.222	1.00	31.73	6
CB	SER	A	2	26.971	25.487	22.951	_	30.83	_
Q.	SER	_	2	25.928	24.593	22.607	1.00	29.99	8
C.		A							
ŏ	SER	_	2	26.380	25,328	25,402	1.00	31.43	6
	SER	ļĄ.	2	27.148	24.394	25.621	1.00	31.37	8
N CA	ARG	IA.		25.322	25.591	26.158	1.00	32.04	7
CA	ARG	ļĄ.	2	25.007	24.798	27.343	1.00	33.31	6
CB	ARG	ļĄ.	2	25.527	25.523	28.594	1.00	29.80	6
č	ARG	Ą	2	25.136	25.984	28.718	1.00	32.62	6
Ç	ARG	À	2	25.444	27,558	30.100	1.00	36.23	6
N	ARG	A	2	26.876	27.614	30.337	1.00	38.08	7
CZ	ARG	A	2	27.584	26.968	31.248	1.00	38.88	<u>-</u>
N	ARG	A.	2	27.022	26,152	32,126	1.00	39.67	<u> </u>
N	ARG	A	2	28.900	27.145	31.292	1,00	39.59	7
Ç.	ARG	A	2	23.517	24.530	27.476	1.00	34,27	6
9	ARG	A	2	22.812	25.153	28.273	1.00	34.34	8
N	PRO	A	2	23.011	23,604	26.668	1.00	34.77	7
c	PRO	Α	2	23.759	22.798	25.680	1.00	34.63	6
CA	PRO	Α	2	21.596	23.290	26.663	1.00	35.68	6
CB	PRO	A	2	21.414	22.259	25.563	1.00	34.95	6
<u>c</u>	PRO	A	2	22.771	21.759	25,235	1.00	35.12	6
	PRO	\mathbf{A}	2	21.117	22.787	28.008	1.00	36.80	6
응	PRO	A	2	21.718	21.928	28.647	1.00	36.75	8

N	TRP	· La	2	20.006	23.348	28.471	1.00	38.16	7
C/	TRP	A	2	19.340	23.015		1.00		6
CE	3 TRP	a	. 2	19,102	21.506		1.00		6
C	TRP	TA	1 2	18.105	20.982		1.00		6
С	TRP	A		18.371	20.039		1.00		6
CE			_	17.161	19.826		1.00		16
CE				19.518	19.357		1.00		_
C	TRP	T A		16.781	21.294		_		16
N	TRP		_	16.206	20.601		1.00		6
CZ		Ā					1.00		17
CZ		_		17.062	18.957		1.00	_	16
		ĮĄ.	_	19.420	18.496		1.00		16
Ē	TRP	ĄĄ		18.199	18.306		1.00		↓6
<u>C</u>	TRP	₽	2	20.014	23.518		1.00	41.79	16
0	TRP	- ∆	12	19.477	23.335		1,00	42.19	18
N	ASP	-↓∆	_ 2	21.147	24.190	30.865	1.00	43.09	7
CA	ASP	A	2	21.818	24.835	31.980	1.00	44.52	6
CB	LASP	$\perp_{\mathbf{A}}$	12	23.278	25.103	31.631	1,00	43.42	6
C	ASP	IA	2	24.118	25.502		1.00	43.46	6
0	ASP	TA	2	24.475	26.697	32.926	1.00		8
ГО	ASP	IA	12	24.445	24.622	33.647	1.00	42.29	8.
С	ASP	IA	2	21.084	26.137	32.293	1.00	45.89	6
0	ASP	IA	2	20.438	26.712	31.414	1.00	46.28	8
N	LYS	A	2	21.191	26.613	33.526		1	7
CA	LYS	ĪΑ	2	20.516	27.826	33.956	1.00	46.55	
СВ		TA	2	20.543	27.916		1-2-00	46.61	6
C	LYS	A	2			35.490	1.00	49.39	6
Č	LYS	_	2	21.936	28.097	36,070	1.00	51.89	6
CE		إ مِ		21.944	29.115	37.199	1.00	54.74	16
NZ		₽	12	22,163	30.525	36.679	1.00	56.43	6
		₽	12	23.250	31.225	37.419	1.00	57.67	7
Š-	LYS	₽	12	21.084	29.104	33.361	1.00	46.01	16
Ġ.	LYS	ļĄ	2	20.356	30.093	33,235	1.00	45.69	8
N.	GLU	ļĄ	2	22,357	29.115	32.989	1.00	45.88	17
CA	GLU	ĮA.	12	23,003	30.286	32.424	1.00	45,19	16
CB	GLU	₽₽.	12	24.486	30,296	32.810	1.00	49.81	6
C	GLU	ĮA,	12	24.786	30.476	34.291	1.00	55.39	6
C	GLU	A	2	26.292	30,404	34.508	1.00	58.82	6
0	GLU	IA.	2	26,965	31.416	34.221	1.00	61.25	8
0_	GLU	IA.	2	26,780	29.338	34.934	1.00	61.03	8.
<u>c</u>	GLU	IA	2	22.903	30.411	30.910	1.00	43.34	6
0	GLU	A	12	23.571	31.282	30.338	2.00	43.47	8
N	ARG	LA.	12	22,109	29.591	30,240	1.00	41.68	7
CA	ARG	A	2	21.890	29.686	28.809	1.00	39.75	6
CB	ARG	A	2	20,645	28.904	28.382	1.00	39.29	6
C_	ARG	A	2	20.740	27.401	28.338	1.00	38.54	6
Ċ	ARG	A	2	19.370	26,750	28.281	1.00	40.21	6
N	ARG	A	2	18.358	27,433	29.063	1.00	45.53	7
CZ	ARG	A	2	17.272	26.884	29.592	1.00	49.23	6
N	ARG	A	2	17.009	25.593	29.440	1.00	50.93	7
N	ARG	Â	2	16.428	27.637	30.289			
C	ARG	Â	2	21.617	31.124		1.00	51.50	7
						28.362	1.00	38,38	6
0	ARG	A	2	20.788	31,790	28.984	1.00	38.95	8
N.	ASP	A.	2	22.224	31.545	27.262	1.00	36,70	7
CA	ASP	A	2	21.954	32.878	26.731	1.00	35.08	6
CB	ASP	A.	2	23.014	33.878	27,184	1.00	33.06	6
<u>C</u>	ASP	A	2	24.383	33.649	26,586	1.00	31.30	6
\circ	ASP	Α	2	24.752	32.483	26.343	1.00	31.19	8
0	ASP	A	2	25.108	34.639	26.356	1.00	34.92	8
C	ASP	A	2	21.817	32.864	25.211	1.00	34.13	6
0	ASP	A	2	21.991	33.908	24.576	1.00	34.59	8
N	GLY	Α	2	21,480	31.719	24.622	1.00	32.88	7
CA	GLY	Α	2	21.288	31.637	23.180	1.00	31.77	6
Č	GLY	Â	2	22.078	30.521	22.513	1.00	30.48	6
ŏ	GLY	A	2	23.036	29.997	23.082	1.00	31.75	8
N N	DUE	~	-	31 600	20 140	07.004	1.00	31.73	<u>-</u>

C	A	PH	Ε	A	12	22.37	1 29.06	7 20.5	187	1.0	0 25.7	74	6
C	В	PH		Α	1 2								
C	_	PH		Ā	12					1.0			6
Č	-	_			_					1.0			6
_	_	PH	$\overline{}$	A	12	22.11				1.0	0 24.1	9	6
၂င	_	PH	_	A	2	20.06		6 18.0	77	1.0	<u>0 23.2</u>	7	6
<u> C</u>	E_	PH	Ε	A	12	21.87	<u> 1 29.68</u>	0 16.0	107	1.0	0 25.5	2	6
LC	E.	PH	E	Α	2	19.82	5 30.53	1 16.8	84	1.0			6
1 C	z	PH:	E	A	2	20.73	30.43			1.0			6
C		PH		A	2	23.71				1.0			
0	_	PH		Ā	2	24.05							6
N	┪	VAJ		Ā	2					1.0			8
C.	-			_	_	24.512				1.0			7_
_	_	VAI		Ą	2	25,82				1.0			6
LC1	벅	VAI	_	A	2	26.96		0 19.8	45	1.0	0 21.8	<u>ı</u>	6
C	-4	VAI		A.	2	28.308	28.31	<u>7 19.1</u>	77	1.0	0 21.0	7	6
C	4	VAI	4	A	2	27.009	28.56	5 21.2	82	1.0	26.1	5	6
С		VAI	-1	A	2	25.815	28.22			1.00			6
0	Ι	VAL	. T	A	2	25.369				1.00			8
N	T	LEU	īĪ	A	2	26,245				1.00		_	7
CA	T	LEU		Ā	2	26.240							
CE	-	LEU		À	2					1.00			<u>6</u>
C	4	LEU	_		2	26.346				1.00		_	5_
	+			٨	_	25.871	30.27			1.00			
ļ <u>c</u>	+	LEU		<u>A</u>	2	24.777				1.00			<u>:</u>
ļĊ	+	LEU		A	2	25.382	31.70	7 12.86	55_	1.00	34.2	Ш	<u>.</u>
C	4	LEU		A.	2	27.377	27.868	3 14.86	58	1.00	25.05	Lθ	ì
0	4	LEU		Δ.	2	28.507	28.038	15.32	27_	1.00			
N.	4	GLY	1	Ы	2	27.086	26.903	14.00	iΙ	1.00			
L CA	Т	GLY	<u>' L</u>	له	2	28.085	25.959			1.00			
LC	1	GLY	1	A	2	27.960	25,662			1.00			
Г	Т	GLY	1	ΑĪ	2	26.880	25.754			1.00			
N		ASP		Α.	2	29.069	25.277			1.00			
CA		ASP		A I	2	29.110	24.945			1.00			
CB		ASP	_	4	2	30.222			" 				
c		ASP	_	١	2	30.213	25.682		+	1.00			_
ŏ		ASP					27.180		-	1.00	24.50	_	_
6			_	4	2	29.125	27.786		-	1.00	29.71	18	
		ASP.	_	4	2	31.298	27.752			1.00	25.78	<u> 18</u>	4
Ç		ASP	1	4	2_	29.361	23.450			1.00	23.41	6	4
O_		ASP	44		2	29.973	22.805	10.65	4.	1.00	23.79	8	J
N		GLY	44		2	28,949	22,941	8.644	丄	1.00	22.27	17	_]
CA	11	\mathfrak{F} LY	14	V	2	29.191	21.541	8.336		1.00	21.31	6	7
<u></u>	1	GLY	10	LL.	2	28.186	20.948	7.363	Т	1.00	20.58	6	٦
0	L	GLY	\perp_A	VΙ	2	27.441	21.636	6.671		1.00	20.04	8	٦
N	I	LA.	IA	ĸΤ	2	28,193	19.621	7.305	_	1.00	20.48	7	1
CA		NA.	LA	_	2	27.344	18.872	6.393		1.00	21.61	6	┪.
СВ		U.A	A		2	27.762	19.108	4.948	_	1.00	20.78	6	۲.
C		LA	TA		2	27.433	17.380	6.706		1.00		_	4
0		LA	Ī		2	28.522			-		21.99	6	┥
N		LY	_	_			16.846	6.890	_	.00	22.37	8	4
CA			۲Ą		2	26.278	16.745	6.779	+!		22.26	17	4
_		LY	ļ٨		2	26.193	15.310	7.029	_	.00	23.98	16	4
č	_	LY	ļ٨		2	25.442	14.711	5.837		.00	25.43	6	4
0		LY	ΙΔ		24	<u>24.558</u>	15.374	5.292	1	.00	25.88	8	1
<u>.Y.</u>		ET.	10		2	25.809	13,502	5.442	11	.00	26.56	7	J
CA		ŒΤ	ļΑ		2	25.162	12.884	4.284	_	.00	27.91	6]
CB	N	ŒŢ	ĺΑ	Ŀ	2]	25.987	13.213	3.041		.00	27.89	6	1
C	L	ŒŢ	A	12	\Box	25.234	13.503	1.769	1		30.30	6	1
SD	Ŋ	ET	A	L	2 1	24.418	15.099	1.678	_	.00	31.13	ī	1
CE	_	ET	A	T		25,677	16.204	2,299	_	.00	32.90	6	1
C	_	ET	Â	12		25.054	11.381	4.482	_	.00		_	1
ŏ		ET	Ā	12		26.020	10.774		_		29.36	6	1
N			_	_	_			4.952		.00	30.39	8	1
		EU	À	+2	_	23.891	10.802	4.184	+1		29.56	7	-
CA		<u>EU</u>	A	12	_	23.748	9.362	4.290	-11	***	30.24	6	1
CB		EU_	A	12	_	22.869	8.838	5.406	_	.00	30.18	6	1
<u>C</u>	_	EU	Α	12	_	22.076	9.717	6.348	11	.00	29.17	6	1
C		EŲ_	LA	12		21.017	8.902	7.084	1	.00	29.29	6	1
<u>c </u>	L	EU	A	12	\Box	22.986	10.389	7.364	$\mathbf{I}_{\mathbf{I}}$.00	30.62	6	1

C	:	LE	u I	Α	12	23.20	5	8.789	•	2.973		1.0	nn	31.4	17	6
O)	LE	υĪ	A	12	22.50	4	9.44		2.213	_	1.0	_	32.2	_	8
N	•	VA	L	Α	12			7.529		2.753	_	1.0		31.8		7
C	A	VA	ιĪ	Α	2	23,03		6.776		1.629	_	1.0	_	32.0		6
	В	VA		A	2	24.03		5.825	_	0.970		1.0	_	31.9	_	6
С		VA		A	2	23.37		5.082		-0.190	,	1.0	_	33.5		6
С	_	VA		A	2	25.26		6.577		0.485	_	1.0	_	31.6		_
C		VA		Ā	2	21.85		5.964	_	2.178	_				_	6
Ō	_	VA		A	2	22.00		5.194		3.124	_	1.0		32.3		6
N		LE		À	2	20.67		6.234			-	1.0	_	32.1	_	8
C.		LE		A	2	19.47		5.506	_	2.033	-	1.0		32.9	_	7
C	ı	LET	_	A.	2	18.30		6.453		2.023	-	1.0	_	32.9		6
Č	-	LE		Ā	2	18.30				2.270	-	1.0	_	32.5	ı	6
Č	┪	LEU		A	2	17.139		7.271		3.561	-	1.0		31.9		6
Č		LEU		A.	2	18.230		8.254		3.566	-	1.0		32.2		6
C	┪	LEU		A	2			6.365		4.779	4	1.0		33.2		6
ŏ	┪	LET		A	2	19.146		4.547	_	0.882	\dashv	1.0	_	33.6		6
	┪			_	_	19.229		4.984	-	-0.271	4	1.0	_	33.3		8
Z	. 1	CLI	-	<u>A</u> .	2	18.806		3.297	_	1.169	4	1.0		35.2		7
C	_	CLU	_	A.	2	18,428		2.403	_	0.074	4	1.0		37.0		6
CI	4	GLU		4	2	19.635		1.854	_	-0.663	4	1.0		39.1		6
논	┥	CLI		4	2	20.444		0.775	_	0.026	4	1.0	_	41.5		6
ĬŠ	+	GLI		A	2	21.610		0.335	_	-0.845	4	1,0	_	43.3	1	6
0	+	GLU		4	2	22.733		0,832	4	-0.631	4	1.0		42,1	Ц	8_
ŏ	+	GLL	44	4	2	21.393		-0.501	Ц	-1.748	4	1.00	4	46.02	4	8
15	+	GLL		<u> </u>	2	17,490		1.295	4	0.538	4	1.00		37.80	Ц	6
0	+	GLU		1	2	17.315		1.048	4	1.729	4	1.00		<u>37.74</u>		ᅬ
Й	+	GLU		Ч	2	16,774		0.747	4	-0,440	4	1.00	~	38.04		7
CA	4	GLU	4	Ч	2	15.789	4	-0.298		-0.182	4	1.00		<u>38.80</u>	Ц	6
CB	4	GLU		Ч	2	14.981	+	-0.568	4	<u>-1.450</u>	4	1.00	4	<u>38.06</u>	Ц	6
١ <u>ς</u>	+	GLU			2	13.782	+	·1.481	4	-1,233	4	1.00		<u>33.93</u>		6
ĕ		GLU			2	14.167	+	2.937	4	-1.445	4	1.00	4	33.44	4	6
Ď		<u>GLU</u>			2_	15.034	+	-3.194	4	-2.308	4	1.00		31.55		8
戶	_	GLU	_	-	2	13.612	+	-3.797	4	-0.734	4	1.00		<u>31.76</u>		
Ĕ		CLU		_	2	16.475		<u>-1.555</u>	4	0.338		1.00		<u> 39,50</u>		6
ļ <u>Ģ</u>		<u>GLU</u>			2_	17.517		1.974	4	<u>-0.159</u>	4	1.00	4	<u>38.79</u>		8
N		TYR	14		2	15.880		2.163	+	1.355		1.00		41.62	1	7
CA		TYR	14		2	16.427		3.344	4	1.999		1.00		44.09	4	Ы
CB	_	TYR	14	_	2	15.416		3.907	4	3.007		<u> 1.00</u>	_	<u> 47.05</u>	4	Щ
کے		IXR	44		2	15.966	+	5.062		3.815		1.00		51.46		6
<u>ç</u>		TYR	ļĄ	_	2	17,060	÷	4.900		4.653		1.00	4	53, <u>28</u>	4	٤_
CE		IXR.	10	_	2	17.559		5.961		5.385		1.00		<u>55.01</u>		1
<u>C</u>		TYR.	14	_	2	15.386		6.320		3.726		1,00		3.44	4	
CE		CYR.	ļ٨		2	15,880		7.387		4.453		1.00		55.01	L	<u>l</u>
CZ		TYR	ļ٨		2	16,965		7.200		5.281		.00		5 <u>5,79</u>	¥	
Ŏ.		TYR.	ļ٨	_	2	17.458		8.260		6.005		.00		6.98	Ц	
Č.		CYR_	ļ٨	_	2	16.892	4:	4.439		1.056		.00		4.36	16	
ō.		CXR_	ļ٨		2	18.074	ŀ	4.800	_	1.067	u	.00	14	3.99	18	
N		GLU	ļĄ		2	16.001		4.973		0,230		.00		4.51	17	
CA		LU	ļĄ		2	16,327		6.045		0.699		.00		5.08	16	Ц
CB		<u>ilu</u>	ļΑ		2	15.054		6.560		1.380	μ	.00	L	6.87	6	Ц
<u>ç</u> _	,	LU	ļA		4	14.085		7.234		0.421	u	.00	4	9.42	6	Ш
<u>C</u>		LU	ļΑ	4		14,666	_	<u>8.461 </u>		2.254	L	.00	5	0.74	6	╛
<u>o</u> .		LU	I A	4	_	14.917		9,469		0.439	L	.00	5	2,14	8	┙
0		LU	Α	يل		14.879	占	8.424	L	.483	L	.00	5	1.57	8	╛
Č_	_	LU	ļΑ	12		17.379		5.678		1.732	1	.00	4	5.15	6	_]
0		LU	A	12		18.145	14	5.545	Ŀ	2.162	ū	.00		5.06	8	J
N		IIS_	Α	2		17.454	Ŀ	4.415	Ŀ	2.130	نا	.00	4	5.19	7]
CA		IIS	A	12	4	18.467	<u> </u>	3.936	Ŀ	3.055		.00		5.66	6]
CB		IIS	Α	13		18.143	نَــا	3.502	Ŀ	3.484	1	.00		0.61	6	
c	_	IIS_	Α	12		19.076		.926		4.501		.00		5.46	6	
C		IIS	A	2	Ц	18.978		.839		5.848		.00		3.88	6]
N		IIS	A	2		20.277		.340		4.168		00		4.67	7	1
CE	Н	IS_	A	2		20.886		.926		5.264		00		3.14	6	7
N	H	IS	A	2	\Box	20.119		.219		5.298				3.39	7	7

_		<u> </u>	<u> </u>						
C	HIS	48	12	19.852			1.00	47.38	6
	HIS	A		20.841	4.346	-3.035	1,00	47.01	8
N	<u> ALA</u>	\perp A	12	19.918	-3.568	1.146	1.00	149.48	7
CA	<u>LALA</u>	<u> </u>	12	21,156	-3.512	-0.387	11.00		_
CB	LALA	LA	12	20.957	-2.642	0.850	1.00		6
C	ALA	I A	12	21.672	4.883		1.00		6
0	ALA	TA	12	22.572	-5.150		1.00	53.00	8
N	LYS	Ā	2	20.762	-5.756		1.00		17
CA	LYS	TÂ	12	21.119	-7.119	0.829	4.00	55.23	-
CB			2				1.00	57.65	6
c		_		19.908	-7.816	1.441	1.00	60.63	6
	LYS	ļ٨	12	20.032	9.315	1.639	1.00	65.05	6
C_	LYS	ļΑ	12	18.678	-9.947	1.929	1.00	67.78	6
CE	LYS	A	2	15,832	<u> </u>	2.540	1.00	69.75	16
NZ	LYS	A	12	17.937	 	3.715	1.00	71.19	17
C	LYS	ĻΑ	2	21.651	-7.883	1-0.379	1.00	58.57	6
0	LYS	\perp A	12	22.648	-8.601	-0.295	1.00	59.09	8
N	LLYS	LΑ	2	121.013	-7.719	-1.532	1.00	59.06	7
CA	LYS	IA	2	21.396	-8.367	2.775	1.00	59.54	6
CB	LYS	ĪΑ	2	20.417	-7.977	-3.889	1.00	61.74	6
C	LYS	A	12	20.739	-8.548	-5,257	1.00	64.55	6
C	LYS	A	12	19.526	-8.538	-6.174	1.00	67.02	6
CE	LYS	Ā	2	18.684	-9.790	-5.989	1.00	67.96	6
ΝZ	LYS	Ä	12	17,562	9.562	-5.037	1.00	69.74	7
C	LYS	Â	12	22.823	-8.063	-3.209	1.00	59.47	6
ō	LYS	Ä	12	23,481	-8.928	-3.797			-
N	ARG	1A	2	23.316			1.00	59.77	8
CA	ARG	A	2		-6.854	-2.971	1.00	59.19	7
CB		_		24.684	6.494	-3.318	1.00	58.96	6
C	ARG	۱ ۸	12	24.750	-5.060	-3.845	1.00	64.49	6
_	ARC	۱ ۸	2	24.662	4.964	-5.361	1.00	70.34	6
Ç	ARG	₽	2	23.628	-3.938	-5.797	1.00	75.18	6
N	ARG	A	12	22,590	-4.519	-6,639	1.00	79.23	7
CZ	ARG	ļĄ.	2	21.967	-3.901	-7.633	1.00	81.69	6
N	ARG	A	12	22.262	-2.646	-7.948	1.00	83.33	7
N	ARG	A	2	21.033	-4.539	-8,329	1.00	82.48	7
<u>c</u>	ARG	ĮΔ.	2	25.622	-6.683	-2.129	1.00	57.70	6
ڡ	ARG	I A	12	26.843	-6.647	-2,276	1.00	57.09	8
N	GLY	ļA.	2	25.063	-6.888	-0.942	1.00	56.76	7
CA	GLY	IA.	2	25.818	-7.122	0.271	1.00	55.73	6
С	GLY	LA.	2	26.477	-5.887	0.860	1.00	55.04	6
0	GLY	A	2	27.669	-5.896	1.171	1.00	55.17	8
N	ALA	IA.	2	25.704	-4,826	1.051	1.00	54.08	7
CA	ALA	Α	2	26.217	-3.573	1.579	1.00	52.80	6
CB	ALA	A	2	25.297	-2.438	1.128	1.00	52.47	6
С	ALA	A	2	26.349	-3.532	3.095	1.00	51.83	6
0	ALA	I A	2	25.664	-4.236	3.829	1.00	51.72	8
N	LYS	A	2	27.193	-2,616	3.565	1.00	51.12	7
CA	LYS	Α	2	27.295	-2.288	4.982	1.00	50.26	6
CB	LYS	Α	2	28.369	-1.226	5.205	1.00	53.24	6
č	LYS	A	2	29.768	-1.712	5.519	1.00	56.48	6
č	LYS	A	2	30.667	-0.551	5.931	1.00	58.30	6
CE	LYS	A	2	31.652	-0.193	4.830	1.00	60.07	6
NZ	LYS	A	2	32.926	-0.155	4.954	1.00	60.39	_
C	LYS	Â	2	25.952					7
ŏ	LYS	A	2		-1.720	5.445	1.00	48.90	٥
N			2	25.615	-0.610	5.024	1.00	49.32	8
	ILE	A		25,198	-2.448	6.257	1.00	47.08	7
CA	ILE .	A	2	23.908	-1.931	6.720	1.00	45.16	6
CB	ILE	A	2	22,789	-2.978	6.630		47.32	6
<u>C</u>	ILE	A	2	21.571	-2.590	7.459		48.62	6
<u> </u>	ILE	A	2.	22,379	-3.171	5,165		48.61	6
c	ILE	А	2	21.380	4.277	4.914	1.00	49.33	6
디	ILE	A	2	24.061	-1,379	8.132	1.00	43.27	6
<u>0 </u>	ILE	Α	2	24.130	-2.120	9.109		43.57	8
N	TYR	Α	2	24.085	-0.055	8.243		40.91	7
CAI	TYR	A	2	24.251	0.633	9.510		38.29	6
									_

		_							
С	BITY	₹ T.	1 2	24.564	12,118	9.276	1.00	36.36	5 6
C	TY	3 /	3 I 2			3.826	1.00		
C	TY	2 7	1 2	26.265		7.480	1.00		
C	EITYF					7.058	1.00		
C	TYF	2 /	1 2			9.744	1.00		
C		_				9.331	1.00		
C		_				7.990	1.00		_
0	TYF		_			7.572	1.00		
Ċ	TYF					10.393	1.00		
ō	TYF								_
N	ALA					11.619 9.769	1.00		
C.							1.00		
C	-		_	20.581	0.637	10,500	1.00		
1c	ALA	_	_	20.556		11.528	1.00		
10	ALA	$\overline{}$		19.407	0.791	9.536	1.00		
N				19.578		8.320	1.00		
C/	GLL			18.214	0.845	10.109	1.00		
_				16.988	0.971	9.338	1.00		
Č			_	16,120	-0.270		11.00		
5	GLU			14.914	-0.407		1.00		
Ĕ	GLU	_		14.032	-1,593	8.998	1.00	41.53	6
Ō	GLU			12.858	-1.611	8.569	1.00		
0	GLU			14.495	-2.527	9.684	1.00		
C	GLU			16.206	2.219	9.719	1.00	35.25	6
0	GLU		42	16.047	2.517	10.903	1.00	35.55	8
N	LEU		12	15.720	2.940	8.714	1.00	35.26	7
CA	LEU		12	14.875	4.109	8.973	1.00	35.14	6
CE			12	14.941	5.121	7.842	1.00	37.51	6
ပြ	LEU		12	14.734	6,596	8.200	1,00	38.88	6
C	LEU	_	12	14.959	7.476	6.980	11.00	39.79	6
<u>c</u>	LEU		12	13,347	6.835	8.775	1.00	39.55	6
LC.	LEU		12	13.459	3.548	9.133	1.00	34.67	6
0	LEU	_	2	12.973	2.920	8.188	1.00	34.29	8
N	VAL	ļΑ	12	12.895	3.592	10.335	1.00	34.72	7
CA	<u> VAL</u>	ͺͿϪ	12	11.617	2.935	10.582	1.00	34.44	6
CB		ĻΔ	12.	11.705	1,917	11.743	1.00	34.57	6
<u>c</u>	VAL	$+\Delta$	12	12.615	0.751	11,386	1.00	34.70	6
C	VAL	4Α	12	12,178	2.591	13.021	1.00	33.08	6
LC_	VAL	$+\Delta$	12	10.470	3.886	10.886	1.00	34.39	6
0	VAL	Ļ۵	2	9.314	3.451	10.859	1.00	34.63	8
N_	GLY	₽Α.	12	10.762	5.143	11.202	1.00	33.88	7
CA	GLY	ĮA.	12	9.705	6.096	11.517	1.00	33.36	6
C	GLY	↓A	12	10.056	7,521	11.115	1.00	33.06	6
0	GLY	↓A	12	11.207	7.948	11.198	1.00	32.88	8
N.	PHE	JA.	2	9.045	8.266	10.676	1.00	32.28	7
CA	PHE	Į∆.	12	9.210	9.662	10,292	1.00	31.30	6
CB		IA.	2	9.510	9.826	8.806	1.00	28.59	6
C	PHE	ĮA.	12	9.670	11,243	8.332	1.00	26.83	6
C	PHE	A	12	10.350	12.190	9.078	1.00	25.03	6
С	PHE	IA.	2	9.142	11.628	7.107	1.00	26.91	6
CE	PHE	A	2	10.483	13.492	8.636	1.00	23.91	6
CE	PHE	A	2	9.283	12.923	6.648	1.00	27.39	6
CZ	PHE	Α	2	9.956	13.857	7.415	1.00	25.55	6
C	PHE	Α	2	7.959	10.450	10,674	1.00	30.86	6
0	PHE	A	2	6.861	10.129	10.222	1.00	31.29	8
N	GLY	A	2	8.133	11.468	11.508	1.00	30.72	7
CA	GLY	A	2	7.022	12.288	11.963	1.00	30.39	6
C	GLY	A	2	7.260	13.770	11.707	1.00	30.81	6
ŏ	GLY	A	2	8,373	14.278	11.829	1.00	30.69	8
Ň	MET	A	2	6.197	14.471	11.324	1.00	30.70	7
CA	MET	Ā	2	6.247	15.891	11.031	1.00	30.10	6
CB	MET	A	2	6.123	16.172	9.536	1.00	29.88	6
C	MET	A	2	7.226	15.696	8.618	1.00	29.92	6
SD	MET	A	2	6.633	15.492	6.924	1.00	29.92 34.18	1
CE	MET		2	6.376	17.202				_
\sim		-	-	9.010	11.696	6.467	1.00	37.05	6

Ç	MET	۲LA	12	5.090	16.631	11.707	1.00	29.62	6
0	MET	T A	12	3.994	16.089		1.00	29.55	8
IN	SER	LA	_	5.320	17.892		1.00	29.54	17
CA		A		4.278	18.725		1.00	29.53	6
CB		TÃ		4.122	18.390		1.00	30.34	6
o	SER	Ā		5.115	19.081	14.866	1.00	29.32	
ľč	SER	I A		4.615	20.207				8
ŏ	SER	_		5.715			1.00	29.31	16
N		4	_		20.579		1.00	28.62	8
	SER	ĮĄ		3.671	21.054	12.890	1.00	29.86	17
CA	SER	ŲĄ.	12	3.872	22.489	12.941	1.00	30.22	16
CB	_	₽	_	3.231	23.285	11.317	1.00	27.32	16
0	SER	ŲA		3.053	22.555	10.628	1.00	25.45	18
IC_	SER	LA	12	3.324	22.997	14.282	1.00	31.35	6
0	SER	<u> </u>	12	2.380	22.420	14.814	1.00	32.24	8
N	ASP	A	2	3.914	24.073	14.780	1.00	31.85	7
CA	ASP	A	2	3.515	24.660	16.043	1.00	32.92	6
CB	ASP	IA	2	4.679	25.459	16.645	1.00	28.71	6
C	ASP	IA	2	5.764	24.604	17.259	1.00	25.31	6
ō	ASP	Ā	12	5.563	23,380	17.390	1.00	23.22	8
ŏ	ASP	IÂ	2	6.818	25.182	17.601	_		_
c	ASP	1A	12	2.342				20.63	8
ŏ		_	_	_	25.623	15.912	1,00	34.31	6
	ASP	ļ٨	12	1.535	25.753	16.831	1.00	35.57	18
N	ALA	ļĄ	2	2.280	26.342	14.796	1.00	35.24	7
CA	ALA	A	2	1.222	27.322	14.562	1.00	35.86	16
CB	ALA	ĮA.	12	-0.098	26.614	14.305	1.00	36.57	6
ےا	ALA	IA.	12	1.139	28.258	15.764	1.00	36.24	6
0_	ALA	44	12	0.082	28.434	16.366	1.00	36.52	8
N_	TYR	IA.	2	2.274	28.851	16,119	1.00	36.71	7
CA	TYR	Į∧.	12	2,392	29.675	17.311	1.00	37.36	6
CB	TYR	la.	12	3.032	28,830	18,431	1.00	39.14	6
C_	TYR	A	2	3.145	29.584	19.738	1.00	42.32	6
Ç	TYR	A	2	2.036	29.771	20.552	1.00	43.82	6
CE	TYR	IA	12	2.134	30.479	21,735	1.00	45.38	6
С	TYR	IA	2	4.355	30.135	20.138	1.00	43.48	6
CE	TYR	Α	2	4.463	30.845	21.317	1.00	44.72	6
CZ	TYR	A	2	3.348	31.013	22.110	1.00	46.22	6
0	TYR	A	2	3.449	31.720	23.288	1.00	47.70	8
C	TYR	A	12	3.179	30.949	17.058	1.00	37,20	6
Ŏ.	TYR	Ā	2	2.594	32.032	16.980	1.00	37.11	8
N	HIS	Ā	2	4.497	30.850	16.925	1.00	37.26	7
CA	HIS	Ā	2	5.335	32,021	16.677	1.00	38.24	6
CB	HIS	A	2	6.002	32,471	17.973			
	HIS	_	2				1.00	39.44	6
č		A.	_	6.665	33.811	17.927	1.00	42.02	6
ç	HIS	Ą	2	6.167	35.060	18.087	1.00	42.79	6
N_	HIS	A	2	8.017	33.965	17.701	1.00	43.00	7
ÇE	HIS	Ą	2	8.325	35.248	17.719	1.00	43.48	6
N	HIS	A	2	7.220	35.934	17,952	1.00	45.06	7
Č	HIS	A.	2	6.369	31.723	15.598	1.00	38.89	6
0 ا	HIS	A	2	6.782	30,572	15.436	1.00	38.24	8
N	MET	A	2	6.834	32.751	14.889	1.00	39.98	7
CA	MET	Α.	2	7.789	32.553	13.806	1.00	41.79	6
СВ	MET	Α	2	7.939	33.779	12,915	1.00	42,46	6
C I	MET	A	2	7.913	35.144	13.565	1.00	46.63	6
SD	MET	A	2	8,464	36,456	12.453	1.00	50.85	1
CE	MET	Α	2	6.904	37.197	11.990	1.00	51.20	6
c l	MET	A	2	9.150	32.063	14.283	1.00	42.80	6
ŏ	MET	Ā	2	9.819	31.352	13.521	1.00	42.73	8
N	THR	A	2	9.576	32,410		1.00		
_						15.491		43.60	7
CAL	THR	À	2	10.871	31.967	15.991	1.00	44.83	٤
ČB	THR	A	2	11.855	33,144	16.144	1.00	43.66	<u>6</u>
<u>Q</u>	THR	A	2	11.143	34.316	16.565	1.00	45,26	8
<u>c</u>	THR	A.	2	12.558	33.422	14.824		41.25	6
ᄗ	THR	A	2	10.775	31.228	17.318		45.67	6
ᇰ	THR	A	2	11.515	30.267	17.539	1.00	46.17	8

N	SER	۾ ا	1 2	9.879	31.662	18.196	1.00	16.47	7 7	_
CA	SER	ΠA	$\prod 2$		31.026		1.00			_
CB	SER	LA	\ i 2		32.058		1.00	-	_	_
0	SER	ĹΑ	1 2		33.013		1.00		_	_
С	SER	ΠA	12	8.701	29.888		1.00			_
0	SER	LΑ	12	7.660	29.962		1.00		_	
N	PRO	A	1 2		28.840		1.00	_	_	_
C	PRO	LA	12	10.212	28.661		1.00			_
CA	I PRO	IA	. 2	8.101	27.693		1.00		_	٦
CB	PRO	LA	. 2	9.087	26.562		1.00	_	_	7
C	PRO	I۵	2	10.210	27.194		1.00		_	٦
C	PRO	LA	12	7.137	27.868		1.00		_	٦
0	PRO	LA	12	7.342	28.716		1.00			٦
N	PRO			6.072	27.078	21.539	1.00	47.01	7	7
LC_	PRO	$\perp A$		5.770	26.011	20.560	1.00	46.89	6	7
CA	PRO	ŲA		5.129	27.090	22.643	1.00	47.40	6]
CB		-↓&	12	3.973	26,227	22,173	1.00	47.06	6	┚
Ē.	PRO	_	12	4.400	25.537	20.935	1.00	47.05	6]
Ç.	PRO	-∤A	12	5.789	26,528		1.00		6	┙
9	PRO	+A	12	6.397	25.453	23.831	1.00		8	┙
N.	GLU		12	5.619	27.172	25.038	1.00		17	4
CA	GLU		12	6.188	26.696	26,299	1.00		6	4
CB	GLU	_	12	5.816	27.643	27.441	1.00		6	4
C C	GLU	A	2	6.199	29.094	27.188	1.00	61.22	16	4
Ö	GLU		2	6,819	29.771	28.392	1.00	64.76	16	4
ŏ	GLU	Â	2	6.115 8.016	30.546	29,075	1.00	66.47	18	4
Č	GLU	Ā	12	5,772	29.536 25.262	28.665 26.599	1.00	67.96 48.73	8	┨
ŏ	GLU	Ā	12	6.514	24.447	27.146	1.00	48.71	8	ł
N	ASN	Ā	2	4.570	24,890	26.211	1.00	47.71	7	1
CA	ASN	A	2	3.976	23.584	26.207	1.00	46.85	6	1
CB	ASN	A	12	2.691	23,692	25.349	1.00	52.48	6	1
C	ASN	A	2	1.620	22,697	25.717	1.00	56.08	6	1
0	ASN	IA	2	0.462	23,077	25,906	1.00	59.18	8	1
N	ASN	Į∧.	2	1.980	21.424	25.817	1.00	58.91	7]
<u></u>	ASN	A	12	4,824	22.498	25.550	1.00	45.13	6]
0	ASN	ļA.	2	4.848	21,351	25.996	1.00	45.12	8]
N	GLY	A	12	5.368	22,805	24.372	1.00	42.77	17	1
ČV.	GLY	A	2	6.118	21.853	23.566	1.00	39.23	6	1
<u>ç</u>	GLY	A	12	5.180	21.002	22,712	1.00	36.81	6	ł
0	GLY	A	12	5.537	19.931	22,223	1.00	35.93	8	1
N CA	ALA	A	2	3.965	21.483	22,501	1.00	35.24	7	ł
CB	ALA	A	2	2.909 1.708	20.820	21.771	1.00	34.29	6	ł
C	ALA	Â	2	3.247	21.768	21.662	1.00	35.14	6	ł
ŏ	ALA	A	2	2.782	20.299 19.215	20.385	1.00	33.82	6	
Ň	GLY	Â	2	3.941	21.079	19.564	1.00 1.00	34,26 32,88	7	
CA	GLY	A	2	4.288	20.642	18.215	1.00	31.65	6	
C	GLY	Ā	2	5.373	19.573	18.254	1.00	31.06	6	
õ	GLY	Ā	2	5.369	18,638	17.452	1.00	30.38	8	ı
Ñ	ALA	A	2	6.303	19.714	19.193	1.00	30.57	7	
CA	ALA	A	2	7.395	18.760	19.358	1.00	30.90	6	
СВ	ALA	A	2	8.396	19.291	20.373	1.00	30.84	6	
C	ALA	Α	2	6.855	17.397	19,775	1.00	31.12	6	
0	ALA	Α	2	7.261	16.360	19.251	1.00	31,20	8	İ
N	ALA	A	2	5.874	17.393	20.672	1.00	31.97	7	ı
CA	ALA	Α	2	5.196	16,175	21.094	1.00	32.35	6	
CB	ALA	A	2	4.149	16,497	22.151	1.00	31.67	6	
<u>c</u>	ALA	Α	2	4.525	15.497	19.904	1.00	33.17	6	
9	ALA	A	2	4.686	14.299	19.674	1.00	33.02	8	
N	LEU	A	2	3.786	16.282	19.123	1.00	33.96	7	
CA	LEU	Ą	2	3.090	15.788	17.944	1.00	34.35	5	
	LEU	A	2	2.396	16.953	17.234	1.00	38,10	6	
<u>c_l</u>	LEU I	Α	2	0.910	16.799	16.906	1.00	41.16	6 1	

	T			10.15		1		т-	_
C	LET		_	0.415	18.015			40.11	
C	LET	_			15.522			41.11	
ŏ	LET	_			13.968			34.13 33.81	
N	ALA				15.667			33.82	
C					15.068			33.23	_
CI	3 ALA	√ A	1 2		16.070	-	1.00	32.79	
С	ALA		\prod_{i}		13.783		1.00	32.82	
0	ALA	4	12	6.930	12.826	15.555	1,00	31.82	
N	ME				13,751	17.614	1.00	32.44	7
CA					12.516	18.239	1.00	32.54	6
CI					12.771	19,636	1.00	32.06	6
I C	MET		_		13.590		1.00	30.75	6
SE	_	_		10.047	13.718		1.00	31.85	41
l c	MET		2	9.278 6.317	15.202	21.899	1.00	24.03	16
ŏ	MET		12	6.464	11.502	18.214	1,00	32.99	16
N	ALA	A	2	5.123	10.387	17.711	1.00	33.07	8
CA	JALA	_l A	2	3.931	11.100	18.540	1.00	33.83 34.86	6
CB		Ä	2	2.696	11.397	18.938	1.00	36.22	6
C	ALA	Ā	2	3.739	10.514	17.145	1.00	35.40	6
0	ALA	ĪΑ	2	3.541	9.302	17.030	1.00	36.47	8
N	ASN	Ā	12	3.817	11.328	16.094	1.00	35.07	17
CA	ASN	A	12	3.628	10.851	14,733	1.00	34.90	6
CB		JA.	2	3.547	12.010	13.730	1.00	36.26	6
LC.	ASN	$\downarrow A$	12	2.252	12.789	13.851	1.00	38.25	6
0	ASN	ŲA.	12	1.213	12,236	14,216	1.00	38.80	8
Й	ASN	ĮĄ.	2	2.304	14.081	13.551	1.00	37.08	7
ļç.	ASN	ļĄ	12	4.695	9.867	14.279	1.00	34.23	16
0	ASN	IA.	12	4.368	8.877	13.619	1.00	34.76	8
N CA	ALA	ļĄ	2	5.960	10.112	14.603	1.00	33.99	17
CB	ALA	A	2	7.040	9.208	14.218	1.00	33.42	6
C	ALA	A	2	8.390 6.871	9.816 7.856	14.556	1.00	32.45	6
ŏ	ALA	Â	2	7.067	6.797	14.905	1.00	33.89	8
N	LEU	TA	2	6.505	7.889	16.183	1.00	33,23 34.57	7
CA	LEU	A	2	6.198	6.693	16.953	1.00	35.73	6
CB	LEU	A	2	5.749	7.072	18.366	1.00	36.10	6
C	LEU	A	2	6.828	7.524	19.350	1.00	36.96	6
C	LEU	A	2	6.202	7.916	20.681	1.00	36.30	6
C_	LEU	IA.	2	7.876	6.440	19.560	1.00	38.05	6
C	LEU	ΙΔ.	2	5.109	5.871	16.271	1.00	36.49	6
0	LEU	ļA.	2	5.281	4.682	16.001	1.00	36.03	8
N	ARG	I.A.	2	3.990	6.518	15.949	1.00	37.50	1
CA	ARG	A	2	2.879	5.857	15.266		38.38	6
CB C	ARG	A	2	1.704	6.821	15.124		43.58	6
C	ARG	A	2	0.688	6.482	14.048		49.95	6
N	ARG	Â	2	-0.490 -0.190	7.442 8.707	14.066		55.15	6
CZ	ARG	Â	2	-0.190	9.791	13.408 13.453		60.73 63.18	7
N	ARG	Ä	2	-2.094	9.789	14.131		64.89	7
N	ARG	A	2	-0.582	10.893	12.814		65.39	7
С	ARG	A	2	3.324	5.309	13.917		38.17	6
0	ARG	Ā	2	3.049	4.160	13.573		38.25	8
N	ASP	A	2	4.130	6.070	13.186		37.94	7
CA	ASP	A	2	4.700	5.669	11.916		38.16	6
CB	ASP	4	2	5.501	6.838	11.323		36.55	6
С	ASP	A	2	5.773	6.631	9.846		34.77	6
0	ASP	A	2	6.910	6.897	9.411		32,57	8
Q	ASP	Α	2	4.847	6.193	9.132		37.98	8
C	ASP	A	2	5.590	4.436	11.994	1.00	39.31	6
0	ASP	A	2	5.689	3.699	11.009		9.50	8
N	ALA	Ą	2	6.259	4.207	13.118		0.45	7
CA	ALA	A.	2	7.114	3.043	13.301	1.00	1.61	6

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C	B AL	ΛĪ,	A I	2 1 3.334	3.400	14.135	1.0	0 42.8	7 6
C	AL	\	ΑT:	2 6.335	1.908	13.964			
Lo	AL	I I	A 2	6.650	0.731	13.796			
l N	GLY	$\Box I$	N 12	5,304	2.271	14,719			
C	ALGLY	T_i	1 2		1.297	15.387			
C	GLY		\ \ \ z		0.739	16.638			_
0	_ GL		X 12		-0.466				
N	ILE	1			1.613	17,390			
C	ILE	1			1.245	18.635			
CI	ILE		1 2		1.199	18.545		_	
С	ILE	_ [A	1 2		-0.071	17.859			
C	ILE	1.4			2.431	17.820			
C	ILE	IA	1 2		2.759	18.178		_	
С	ILE	A			2,261	19.704	1.00		
0	ILE	A			3.378	19.357	1.00		
N	GLU	ΙA	1 2		1.867	20.968	1.00		
CA	GLU				2.805	22.040	1.00		_
CE	GLU	LA	1 2	5.132	2.074	23.223	1.00		
C	GLU	LA	1 2	3.772	1.466	22.905	1.00		
С	GLU		. 2	2,955	1.176	24.149	1.00		
0	GLU	LΑ	<u>.</u> 2	2.576	0.003	24.354	1.00	_	
0	GLU	ΙA	$\int 2$	2.690	2.121	24.922	1.00		_
C	GLU	LΑ	12	7.005	3.582	22,436	1.00		_
0	<u> GLU</u>	IΑ	. 2	8.121	3.206	22,071	1.00		
N	ALA	A	12	6.845	4.639	23.220	1,00		
CA	ALA	JA	12	7.948	5.479	23.657	1.00		
CB	ALA	▗▍	12	7.386	6.701	24.387	1.00		
C	ALA	₽₩	12	8.978	4.794	24.538	1.00	47.23	6
ا م	ALA	₽₽.	12	10.126	5.249	24.609	1.00	47.89	8
N	SER	↓ A	2	8.656	3.686	25,190	1.00	47.44	17
CA	SER	IA.	2	9.558	2.956	26.061	1.00		6
CB		₽	2	8.742	2.180	27.106	1.00	48.58	6
10	SER	إ ٨	12	8.071	1.092	26,492	1.00	49.60	8
읏	SER	₽	12	10.487	1.993	25.337	1.00	_	6
0	SER	╀	12	11.244	1.248	25.965	1.00	47.13	8
CA	GLN	ļĄ	2	10.457	1.987	24.013	1.00	45.51	17
CB	GLN	A	2	11.310	1.141	23.192	1.00		6
C	GLN	Â	12	9,657	0.498	22.058	1.00	45.59	6
č	GLN	A	2	8.571	-0.671	22,514	1.00	48.22	6
o	GLN	Ä	2	8.830	-1.682	21.531	1.00	50.32 51.41	8
N	GLN	Ā	2	7.336	-0.664	21.837	1.00		17
c	GLN	Ā	2	12.472	1.979	22.658	1.00	51.31 42.12	6
0	GLN	Ā	2	13.417	1.474	22.059	1.00	41.78	8
Z	ILE	A	2	12.397	3.283	22,904	1.00	40.51	7
CA	ILE	A	2	13.436	4.222	22.523	1.00	39.86	6
CB	ILE	A	2	12.873	5.622	22,207	1.00	40.19	6
C	ILE	A	2	13.992	6.609	21.897	1.00	39.47	6
C	ILE	A	2	11.861	5.567	21.063	1.00	40.86	6
C	ILE	Α	2	12.417	5.221	19,702	1.00	40.33	6
С	ILE	A	2	14.466	4.359	23,644	1.00	39.12	6
0	ILE	Α	2	14.144	4.781	24.753	1.00	39.07	8
N	GLY	Α	2	15.712	4.023	23.335	1.00	38.94	7
CA	GLY	Α	2	16.789	4.127	24.309	1.00	38.40	6
Ç	GLY	A	2	17.317	5.557	24.385	1.00	38,27	6
0	GLY	IA.	2	17.438	6.113	25,478	1.00	39.05	8
N	TYR	A	2	17.608	6.152	23.231	1.00	37.49	7
CA	TYR	A	2	18.231	7.471	23,206	1,00	36,85	6
CB	TYR	A	2	19.714	7.308	22.877	1.00	36.62	6
č	TYR	A	2	20.474	8.536	22.443	1.00	36.28	6
CE	TYR	Ą	2	21.036	8.603	21.173	1.00	36.11	6
ČE	TYR	A	2	21.745	9,715	20,759	1.00	35.70	6
CF CF	TYR	A	2	20.650	9.621	23.290	1.00	36.10	6

Figure 1 - 17

CZ	! TYR	$_{\rm LA}$	12	21,905	10.777	21.621	1.00	35.72	6
LQ.	TYR	A	2	22,617	11.885	21.218	1.00	35.48	8
C	TYR	A	2	17.576	8.447	22.237	1.00	36.52	6
Г	TYR	Ā	2	17.242	8.145	21,096	1.00	35.93	8
N	VAL	IA	3	17,430	19.680	22.716	1.00	35.99	17
CA	VAL	A	3	16.887	10.788	21.955	1.00	35.60	6
CB	VAL	Â	3	15.694	7		1.00		_
C	VAL	_	3		11.455	22,668	_	37.52	6
		ļĀ	_	15.134	12.606	21.939	1.00	38.08	6
Ç	VAL	ĮĄ.	3	14.592	10.451	22.970	1.00	39.63	6
<u> </u>	VAL	↓Α.	3.	17.958	11.856	21,725	1.00	34.43	16
	VAL	IA.	3	18.409	12.496	22.675	1.00	33.82	8
N.	ASN	\mathbf{A}	13	18.389	12.018	20.480	1.00	34.00	7
CA	LASN	I A	3	19.251	13.152	20.122	1.00	32.94	6
CB	ASN	A	3	19.999	12.918	18.828	1.00	33.36	6
C	ASN	A	3	21.046	13.957	18.499	1.00	35.05	6
0	ASN	ĪĀ	3	22.239	13.747	18,730	1.00	36.83	18
N	ASN	A	3	20.620	15.086	17.946	1.00	35.26	7
C	ASN	Ā	3	18.307	14.355	20.032	1.00	32.21	6
ŏ		_			T		_		
N	ASN	IA.	13	17.477	14.448	19.130	1.00	31.53	18
	ALA	14	3	18.392	15.219	21,029	1.00	31.54	17
CA	ALA	I.A.	3	17.516	16.366	21.148	1.00	31.65	16
CB	ALA	IA.	3	17.630	16.910	22.576	1.00	27.55	6
C_	ALA	Α.	3	17.819	17.498	20.183	1.00	31.57	16
0	ALA	A	3	18.915	17.585	19.637	1.00	31.93	18
N.	HIS	ĮA.	3	16.837	18.396	20,037	1.00	31.47	17
CA	HIS	A.	3	17.066	19.582	19.205	1.00	31.50	6
CB	HIS	A	3	15.774	20.293	18.825	1.00	30.71	6
C	HIS	LA	3	16.012	21.492	17.954	1.00	30.47	6
C	HIS	A	3	16,639	21,604	16.758	1.00	30.33	6
N	HIS	A	3	15,623	22,765	18.306	1.00	31.27	7
CE	HIS	A.	3	15.990	23.610	17.361	1.00	31.78	6
N	HIS	Ā	3	16,610	22.932	16.411	1.00	32.01	7
c	HIS	A	3	18.023	20.467	20.012	1.00	31.54	6
ō.	HIS	Ä	3	19.076	20.889	19.544	1.00	31.65	8
N	GLY	Â	3	17.751	20.594	21.304	1.00	31.96	7
CA	GLY	Â	3	18.569	21.240	22.298	1.00	32.18	6
_			_						_
C 0_	GLY	ļĄ.	3	19.554 20.765	22.282	21.817	1.00	32.16	6
		ļĄ.			22.041	21.787	1.00	32.53	8
N.	THR	Α	3	19.075	23.478	21.485	1.00	32,26	7
CA	THR	A	3	19,942	24.526	20.965	1.00	31.80	6
CB	THR	ΙΔ.	3	19.195	25.393	19.926	1.00	30.30	6
<u>o</u>	THR	Α.	3	17.971	25.868	20.489	1.00	33.79	8
C	THR	Λ	3	18.916	24.563	18.686	1.00	29.22	6
C	THR	A	3	20.567	25.441	21.994	1.00	31.72	6
0	THR	A	3	21,445	26,225	21.621	1,00	31.84	8
N	SER	4	3	20.178	25.357	23.253	1.00	31.92	7
ÇA	SER	Α	3	20,743	26.174	24.316	1.00	32.75	6
CB	SER	A	3	22.254	26.359	24.195	1.00	33.63	6
0	SER	A	3	22.778	26.944	25.377	1.00	35.52	8
Č	SER	A	3	20,038	27.524	24.425	1.00	32.80	6
ŏ	SER	A	3	20.605	28.532	24.845	1.00	31.92	8
N	THR	Ā	3	18,762	27.525	24.054	1.00	33.61	7
CA	THR		3	17.931	28,718	24.172		34.81	6
		A					1.00		I
CB	THR	A	3	17.073	28.985	22,928	1.00	32.66	6
Ŏ	THR	Į.	3	16.429	27.765	22.530	1.00	30.74	8
C	THR	Δ	3	17.926	29.510	21.786	1.00	31.00	6
C	THR	А	3	17.010	28.512	25.372	1.00	35.97	6
9	THR	Δ	3	16.467	27.421	25,556	1.00	36.42	8
N_	PRO	Δ	3	16.873	29.534	26.198	1.00	37.08	7
Ç.	PRO		3	17.498	30,869	26.036	1.00	37.65	6
CA	PRO	A	3	15.980	29.484	27.343	1.00	37.87	6
CB	PRO	Λ	3	15.850	30.942	27.764	1.00	37.78	6
С	PRO	A	3	17.111	31.587	27.303	1.00	37.64	6
Č	PRO	Ä	3	14.643	28.864	26.977	1.00	38.58	6
	A								

0	PRO	A	13	14.346	27.732	27.366	1,00	39.90	13
N	ALA	IA.	13	13.863	29.551	26.149	1.00	38.58	7
CA	ALA	A	3	12.543	29,093	25.745	1.00	38.47	6
CB		LA.	3	11.890	30.148	24.855	1.00		6
C	ALA	LA.	13	12.517	27.741	25.053	1.00	38.11	6
0	ALA	A	13	11.657	26,908	25,367	1.00		8
N	GLY	$\perp A$	3	13.404	27.502	24.096	1.00	37.82	7
CA	GLY	JA.	3	13.418	26.268	23.333	1.00	37.36	6
C	GLY	JA.	3	13.765	25.021	24.125	1.00	37.41	6
0	GLY	ŲA.	3	13.141	23.971	23.945	1.00	36.65	8
N.	ASP.	IA.	13	14,746	25.106	25.018	1.00	38.18	7
CA	ASP	ĮA,	3	15,180	23,961	25.811	1.00	39.15	6
CB	ASP	ĮA.	13	16.465	24.288	26.575	1.00	40.44	6
Ç	ASP	Į.A.	13	17.674	24.427	25,673	1.00	41.01	T6
0	ASP	IA.	13	18,777	24.687	26.198	1.00	41.45	8
0	ASP	A	3	17.544	24.277	24.441	1.00	42.11	8
C	ASP	A	3	14.107	23,470	26.771	1.00	39.31	6
0	ASP	ĮA.	3	13.965	22.262	26.962	1.00	38.78	8
Z	LYS	↓A	3	13.337	24,384	27.349	1.00	40.33	7
CA	LYS	A	13	12.248	24.038	28,249	1.00	41.37	6
CB	LYS	ĮA.	3	11.679	25.294	28,915	1.00	44.75	6
<u>c</u> _	LYS	ĮA.	3	12,447	25.786	30.127	1.00	48.79	16
C	LYS	A	3	11.955	27,158	30.569	1.00	52.90	6
CE	LYS	ļA.	3	10.808	27.035	31.558	1.00	55.82	16
NZ	LYS	ļĄ	3	10.052	28.310	31.699	1.00	58.57	7
Č-	LYS	ļĄ.	3	11.112	23.325	27.521	1.00	41.30	6
0	LYS	ļĄ.	3	10.542	22.359	28.027	1.00	41.76	8
N.	ALA	ļĄ	3	10.750	23.834	26.346	1.00	41.14	17
CA CB	ALA	A	3	9.661	23.270	25.558	1.00	40.10	6
C	ALA	Â	3	9.430 9.938	24.095 21.816	24,301	1,00	40.50	6
ŏ.	ALA	Â	3	9,110	20.941	25,199 25,449	1.00	39.44	6
N	GLU	Â	3	11.117	21.553	24.642	1.00	39.45 38.86	7
CA	GLU	Ä.	3	11.517	20.199	24.292	1.00	38.43	6
CB	GLU	A	3	12.908	20,174	23.650	1.00	36.45	6
C	GLU	Α	3	13.346	18.771	23.264	1.00	35.26	6
С	GLU	A	3	14.539	18.724	22.340	1.00	35.78	6
0	GLU	A	3	15.309	19.704	22.269	1,00	34.04	8
0	GLU	A	3	14,707	17.674	21.682	1.00	37.46	8
С	GLU	Α	3	11.497	19.289	25.515	1.00	38.96	6
0	GLU	IA.	3	10.886	18.220	25.473	1.00	39.10	8
N	ALA	A	3	12.102	19,724	26,616	1.00	39.64	7
CA	ALA	IA.	3	12.042	18.983	27.874	1.00	41.27	6
CB	ALA	IA.	3	12.591	19.831	29.012	1.00	40,83	6
<u>c</u>	ALA	A.	3	10.607	18.555	28.169	1.00	42.20	6
0	ALA	Α.	3	10.283	17.373	28.253	1.00	41.83	8
N.	GLN	A.	3	9.708	19.528	28.245	1.00	43.58	17
CA	GLN	Ą	3	8.289	19.330	28.467	1.00	45.33	6
<u>CB</u>	GLN	A.	3	7.590	20,697	28.418	1.00	46.77	6
딧	GLN	Ą.	3	6.134	20.675	28.840	1.00	50.69	6
<u> </u>	GLN	A.	3	5.951	20.383	30.316	1.00	51.91	5
읝	GLN	A	3	6.100	21.270	31.156	1.00	52.38	8
N C	GLN	A	3	5.631	19,132	30.630	1.00	51.50	7
응	GLN	A	3	7.630	18.385	27.473	1.00	46.33	6
N.	GLN ALA	A	3	6.745	17.607	27.844	1.00	46.33	8
CA	ALA	A	3	7.518	18.411	26.211	1.00	46.88	7
CB	ALA	Â	3	7.518 7.923	17.538 18.062	25.178 23.803	1.00	47.24 50.24	6
Ç	ALA	Â	3	7,967	16.090	25.329	1.00	47.27	6
ŏ	ALA	A	3	7.269	15.181	24.874	1.00	47.41	8
N	VAL	Â	3	9.123	15.858	25.938	1.00	47.41	7
CA	VAL	Â	3	9.631	14.508	26.168	1.00	47.69	6
СВ	VAL	À	3	11.153	14.496	26.378	1.00	46.76	6
c	VAL	Α	3	11.660	13,139	26.846	1.00	45.38	6

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C	VAL		_				1.00	46.70	16
C	VAL		_		13,883	27.364	1.00	47.82	6
0	VAL	4			12.693	27.365	1.00	47.71	8
N	LYS	4		8.585	14.714	28.349	1.00	48.07	7
C		14		7.799	14.263	29.494	1.00	48.68	6
CI		I A	1 3	7.654	15.386	30.523	1.00	48.79	6
LC.	LYS	10	1 3	8.880	15.539	31.412	1.00	49.95	6
LC	LYS	A	13	8.716	16.660	32.425	1.00	51.90	6
CE	LYS	TA	1 3	9.831	16.618		1.00	53.93	6
NZ		A	13	9.808	17.806		1.00	55.89	7
C	LYS	A		6.439	13.762		1.00	49.02	6
10	LYS	IA		6.044	12.632		1.00	49.46	8
N	THR			5.771	14.551	28.192	1.00	48.90	17
CA		A	_	4.469	14.237	27.636	1.00	49.03	6
CE			3	3.972	15.427	26.782			
O	THR		3	4.097			1.00	48.10	6
C			_		16,635	27.549	1.00	47.21	8
C	THR	14	13	2,522	15,250	26.372	1.00	46.85	16
0	THR		3	4.411	12.968	26.804	1.00	49.57	16
_	THR	44	13	3.380	12.285	26.804	1.00	50.05	<u>↓8</u>
N	ILE	Ą٨	3	5.462	12,637	26.068	1.00	50.18	17_
CA		1	3	5.470	11.469	25,198	1.00	50.51	6
CB		- ∧	3	6.342	11.746	23.954	1.00	50.53	6
C	ILE	↓ Δ	3	6,438	10.528	23.051	1.00	50.20	6
C	ILE	ļΑ	3_	5.800	12.953	23.183	1.00	51.45	6
C	ILE	ͺͿΔ	13	4.379	12.825	22.680	1.00	51.49	6
C	LILE	AĻ	3	5,936	10.194	25.880	1.00	50.83	6
0	ILE	JΑ	13	5.339	9.134	25.668	1.00	50.86	8
N	PHE	A	13	7.014	10.262	26.651	1.00	51.33	7
CA	PHE	A	3	7.560	9.065	27.288	1.00	52.19	6
CB	PHE	A	3	9.074	9.195	27.452	1.00	52.50	6
C	PHE	ĺΑ	3	9.821	9.238	26.147	1.00	53.33	6
C	PHE	A	3	9.830	10.383	25.370	1.00	53.36	6
Ç	PHE	ĪΑ	3	10.525	8.132	25.702	1.00	53.23	6
CE	PHE	A	3	10.516	10.426	24.173	1.00	53.94	6
CE	PHE	A	3	11,217	8.168	24.507	1.00	54.53	6
CZ	PHE	Α	3	11.213	9.316	23.740	1.00	54.18	6
C	PHE	A	3	6.871	8.762	28.610	1.00	52,24	6
0	PHE	A	3	6.695	7.597	28.973	1.00	51.99	8
N	GLY	A	13	6.444	9.798	29.320	1.00	52.78	7
CA	GLY	A	3	5.693	9.654	30.551	1.00	53.77	6
C	GLY	A	3	6.446	8.986	31.687	1.00	54.34	6
ō	GLY	Ā	3	7.227	9.630	32.388	1.00	54.23	8
N	GLU	A	3	6.205	7.690	31.888	1.00	54.80	7
CA	GLU	A	3	6.838	6.949	32.975			
CB	GLU	Â	3	5.960			1.00	55.28	6
C	GLU	A	3		5.789	33.443	1.00	58,98	٩
č	GLU	Â	3	4.949	6.181	34.517	1.00	62.90	6
6	GLU	_	3	3.537	6.208	33.959	1.00	65.17	6
믕		A.		3.089	7.295	33.536	1.00	67.07	8
C	GLU	Ą	3	2.888	5.142	33.934	1.00	65.23	8
	GLU	A	3	8.228	6.464	32.591	1.00	54.50	6
0_	GLU	A	3	9.043	6.116	33,445	1.00	54.82	8
N_	ALA	ΙΔ.	3	8.521	6,463	31.294	1.00	53,52	7
ĽΔ.	ALA	Α.	3	9.823	6.062	30.782	1.00	52.63	6
CB	ALA	ن۵	3	9.689	5.365	29.440	1.00	50.42	6
Ç.	ALA	Α	3	10.734	7.284	30.676	1.00	52.26	6
0	ALA	Α	3	11.926	7.171	30.394	1.00	51.59	8
N	ALA	Α	3	10.210	8.471	30.953		52.74	7
CA	ALA	Α	3	10.943	9.724	30.925		54.05	6
CB	ALA	Α	3	10.102	10.838	31.539		53.68	6
С	ALA	Α	3	12.291	9.648	31.629		55.13	6
0	ALA	A	3	13.320	9.986	31.034	****	55.60	8
N	SER	A	3	12.327	9,160	32.867	_	55.54	7
CA	SER	A	3	13.573	9,002	33.606			6
CB	SER	Ā	3	13.306	8.859	35,105			6
			للع	-4.504	4.445		-, -, -, -, -,	* I - V - 1	لــــــــــــــــــــــــــــــــــــــ

	_				_						
	0	SER	L	\ 3	12.17)	3.052	35.359	1.00	57.76	5 8	₹
	C	SER	L	\ 3	14.399	7.821	33.107			_	
	0	SER	I A	\ 3			33.355				
	LN	I ARC					32.386				
	LC.		_				31.814		_	_	
	CE										
	C	ARC	_	_			31.647				
	C		_				30.920				
	_	ARC	_	_			30.737				
	N	ARC		_			30,126			7	<u>_</u>
	CZ		_	_			29.913		77.16	1 6	;
	N	ARC		_	10.497	0.540	30.262	1.00	78.29	1 7	<u>'</u>
	N	ARC			12.073	-0.845	29.347	1.00	78,92	: 17	Ξ
	C	ARG		<u> 1</u> 3	15,110	6.023	30.491	1.00	55.03	∟l 6	;
	0	ARG	ه ا	3	16.028	5.296	30.105	1.00			
	N	VAL	ĹΑ	3	14,705	7.077	29.789	1.00			
	CA	VAL	ΙA	. 3	15.284	7.424	28,496	1.00			
	СВ		TA	. 3	14.174	7.860	27.515	1.00	_		
	С	VAL	A	3	13.523	9.165	27.947	1.00		6	
	C	VAL	I.A	3	14.710	7.972	26.095	1.00			_
	C	VAL	IA	3	16.377	8.479	28.545				_
	0	VAL	ĪĀ	3	16.278			1.00			
	N	LEU		3		9.497	29.227	1.00		18	_
	CA	LEU		3	17.436	8.250	27,770	1.00	48.09	17	_
	CB		14		18.567	9.163	27.688	1.00	45.94	16	4
			إ م	13	19.875	8.398	27,483	1.00	43.63	16	_
	두	LEU	ļΑ	3	20.080	7.094	28,254	1.00	43.75	6	_
	چا	LEU	ļ٨	3	21.455	6,510	27.955	1.00	41.34	6	
	C_	LEU	-↓∧	13	19.912	7.299	29.751	1.00	42.51	6	
	Ē.	LEU	$\downarrow A$	13	18.397	10.184	26.566	1.00	44.92	6	
	0	LEU	ĮA.	13	18.184	9.849	25,402	1.00	44.57	8	
	N	VAL	┸	3	18.446	11.460	26.934	1.00	43.75	17	
	LCA	VAL	$\bot A$	13	18.292	12.568	26,006	1.00	42.60	6	7
	CB	VAL	IA	3	17.056	13.434	26,333	1.00	42,79	6	7
	C	VAL	A	3	16.914	14.564	25.318	1.00	43.51	6	٦
	C	VAL	A	3	15.771	12.628	26.391	1,00	41.10	6	٦
	C	VAL	A] 3	19.511	13.487	26.057	1.00	41.36	6	٦
	0	VAL	A	3	19.660	14.195	27.055	1.00	41.26	8	7
	N_	SER	A	3	20.277	13,602	24.978	1.00	40.10	7	1
	CA	SER	A	3	21.417	14.515	24.995	1.00	38.23	6	┪
ĺ	CB	SER	Α	3	22.726	13.733	25.111	1.00	38.48	6	٦
ĺ	0	SER	A	3	23.125	13.209	23.860	1.00	37.54	18	H
i	С	SER	A	3	21.462	15.432	23.779	1.00	37.10	6	┪
i	ō	SER	Ā	3	20.980	15.110	22.696			_	┥
	N	SER	A	3				1.00	36.20	8	4
į					22.080	16.597	23.971	1.00	36.01	7	4
l	CA	SER	A	13	22,287	17.541	22.882	1.00	34.31	6	4
ı	CB O	SER	ĮĄ.	3	21.798	18.939	23.261	1.00	34.82	6	ł
ĺ		SER	Ą	3	22,083	19.885	22.245	1.00	31.05	8	4
l	Č	SER	ļĄ.	3	23.762	17.580	22.501	1.00	33.61	6	1
۱	<u>e</u>	SER	A	3	24.597	18.118	23.233	1.00	33.03	8	1
ŀ	N.	THR	A	3	24.072	17.129	21,284	1.00	32.62	7	1
ŀ	CA	THR	A	3	25.437	17,172	20.775	1.00	32,08	6	1
ļ	CB	THR	A	3	25.726	16.101	19.712	1.00	33.01	6]
ļ	0	THR	A.	3	24.747	16.143	18.667	1.00	34.86	8	J
ļ	<u>c </u>	THR	A	3	25.711	14.716	20.347	1.00	32.74	6]
ĺ	C	THR	A	3	25.793	18.553	20,240	1.00	31.64	6	1
	0	THR	Α	3	26.924	18.826	19.840	1.00	31.14	8	1
ĺ	N	LYS	A	3	24.856	19.491	20.300	1.00	31.31	7	1
ľ	CA	LYS	Α	3	25.010	20.881	19.939	1.00	31.62	6	١
	CB	LYS	Â	3	23.654	21.553	19.710	1.00	29.29	6	l
	C	LYS	Â	3	22.892	21.070	18.485			_	1
	č	LYS	A	3	21.836	22.083		1.00	26.40	6	l
	CE	LYS	Ā	3	21.019	21.625	18.071	-8-55	26.12	6	
	NZ	LYS					16.880	1.00	19.32	6	ı
	_		Ā	3	20.357	20.315	17.079	1.00	19.99	7	l
	윘	LYS	Ą	3	25.777	21.650	21.017	1.00	32.18	5	ŀ
		1.YS 1		- 2 I	JE 197	20 774	·10 700	3 00 1	21 70 1	0 1	

	_									
	N	SER		13	26.013	21.03	3 22.170	1.00	32.1	5 7
	CA	SER	1	1 3	26.870	21.550				_
	CI	SER	1	<u> </u>	26.670	20.797	7 24.533			
	0	SER			26,705					
	C	SER		. 3						
	0	SER				_				
	N	MET								
	CA			_						
	CE								30.45	_
	C	MET						1.00	29.91	-
	SI							1.00	30.11	_
						16.559		1.00	27.38	
	CE			_				1.00	28.29	
	Č	MET		13	30.209			1.00	29.74	6
	0	MET		3	31.181	21.695	_	1.00	30.42	
	N	THR		13	29.206	20.776	19.194	1.00	28.53	1 7
	CA	THR	<u> </u>	_ 3	29.221	21.052	17.764	1.00	26.82	6
	CB	THR	A	3	28.529	19.849	17.084	1.00	25.06	
	0	THR	<u>LA</u>	13	29.276	19.446	15.930	1.00	30.10	
	C	THR	A	3	27,090	20.114	16.701	1.00	18.67	
	C	THR	\perp_{Λ}	3	28.614	22,391	17.399	1.00	26.37	6
	0	THR	LA	3	29.054	23.058	16,457	1.00	26.07	8
	N	GLY	TA	3	27.618	22.819	18.170	1.00	25.19	7
	CA	GLY	IA	3	26,920	24.078	17.903	1.00	23.14	6
	С	GLY	A	3	25.703	23.739	17.033	1.00	22.02	6
	0	GLY	Ā	3	25,454	22.562	16.775	1.00	20.89	8
	N	HIS	A	3	24.951	24.734	16.597	1.00	21.15	7
	ÇA	HIS	Ä	3	23.784		15.756	_		
	CB	HIS	TÂ	3	22.551	24.482 25.433		11.00	21.64 22.64	16
	C	HIS	Ā	3	21.345		16.132	****		6
	Č.	HJS	_	_		25,179	15.448	1.00	22.18	16
	N	HIS	I A	13	20.906	24.174	14.655	1.00	22.76	16
	CE		ļĄ.	13	20.290	26.062	15.559	1.00	21.82	17
		HIS	ļ.	13	19.267	25.608	14.868	1.00	22,80	6
	N	HIS	I.	3	19.610	24.462	14.307	1.00	22.54	17
ľ	Ç	HIS	ļĄ	3	24.154	24.629	14.285	1.00	21.46	<u>↓6</u>
	9	HIS	ļĄ.	3	24.436	25.735	13.825	1.00	20.69	18
ļ	N_	LEU	ļĄ	13	24.046	23.547	13.518	1.00	21.57	7
	CA	LEU	A	3	24.414	23.543	12.110	1.00	21.84	6
ļ	CB	LEU	IA.	3	25.023	22.217	11.684	1.00	23.76	6
Ì	С	LEU	ļ٨.	3	26.176	21.514	12.363	1.00	26.89	6
ı	С	LEU	Α	13_	27.099	20.895	11.311	1.00	23.94	6
ı	С	LEU	A	3	26.984	22,392	13,303	1.00	26.29	6
ļ	С	LEU	A	3	23.230	23.833	11.187	1.00	21.61	6
l	0	LEU	LA	3	23.245	23.478	10.007	1.00	20.96	8
į	N	LEU	A	3	22,196	24.471	11.711	1.00	21.90	7
l	CA	LEU	A	3	21.000	24.829	10.971	1.00	20.97	6
ĺ	CB	LEU	A	3	21.256	26.146	10.227	1.00	25.02	6
ĺ	С	LEU	Α	3	21.228	27.387	11.132	1.00	29.21	6
Ī	C	LEU	A	3	21.823	28.592	10.425	1.00	31.78	6
ľ	Ç	LEU	A	3	19.805	27.671	11.588	1.00	31.03	6
Ì	Ċ	LEU	A	3	20,517	23.723	10.053	1.00	20.08	6
ľ	ō	LEU	A	3	20.109	22.668	10.547		19.70	
t	N	GLY	Ā	3	20.685			1.00		8
ŀ	CA	GLY	Ā	3	20.189	23.857	8.743	1.00	18.85	7
ŀ						22.912	7.767	1.00	17.73	6
H	ç	CLY	A	3	20.916	21.583	7.708	1.00	17,85	5
۱	읝	GLY	Ą.	3	20,420	20.628	7.105	1.00	18.50	8
ŀ	N	ALA	A	3	22.098	21.491	8.305	$\overline{}$	16.95	7
ŀ	CA	ALA	A	3	22.859	20.258	8,366		16.12	6
	CB	ALA	Α	3	24.336	20.533	8.116	1.00	14.89	6
L	<u>c</u>	ALA	Α	3	22.706	19.597	9.734	1.00	16.19	6
L	o	ALA	A	3	23.205	18.491	9.940	1.00	16.13	8
	N	ALA	A	3	22.053	20.282	10.670		16.51	7
	CA	ALA	A	3	21.914	19.783	12.032		17.53	6
Ĺ	CB	ALA	A	3	21.234	20.798	12.943		14.26	6
Ĺ	с	ALA	A	3	21.200	18.444	12.097		7.49	6

0	ALA	L	A 3	21.709	17.52	4 12.734	1.00	18.70	0 18
N	GLY	4	\L:	20.093	18.28	4 11.392			
C	A GLY		1			4 11.340	1 1.00		
C	GLY					4 10.641	1.00	19.9	5 6
0	GLY	4	1	19.804	14.74	2 10.908	1.00	20.2	3 8
N	<u> ALA</u>	16	1 3	20.979	16.23	5 9.714	1.00	20.89	7
C		4	1 3	21.739	15.23	4 8.980	1.00	22.25	2 6
CI	<u>3 ALA</u>	46	1 3			7.690	1.00		
C	ALA	4		22.879	14.65	7 9.815	1.00		
0	ALA	46	13	22.998	13.436	9.944	1.00	22.82	8
N	VAL	<u>. A</u>	13	23.692	15.528	10.413	1.00		
CA			_	24.804			1.00	24.94	
CE		_!^	13	25.732	16.23	11.691	1.00	24.96	
lc.	VAL	4.6		26.375	16.906	10.489	1.00	24.13	
C	VAL	14		25.004		12.543	1.00	24.96	6
<u>c</u>	VAL	_ A	_	24.313		12.482	1.00	25.74	6
lo.	VAL.	10	<u> </u>	24.898	13.344	12.896	1.00	25.66	8
И	GLU		_	23.217	14.813	13.064	1.00	26.47	7
CA			43	22,620	14.235	14.251	1.00	27.57	6
CB			$\overline{}$	21.656	15.256	14.879	1.00	24.46	6
<u>c</u>	GLU			22,395	16.436	15.485	1.00	22.46	6
<u>c</u>	GLU		13	21.493	17.567		1.00	21.93	6
0	GLU	_	3	20.285	17.356		1.00		8
0	GLU	_	13	22.008	18.695		1.00		8
드	GLU	ļ٨	13	21.897	12.920		1.00		6
ŀĠ.	GLU	ļ٨	3	21.691	12,158		1.00	29.70	18
N.	SER	ļĄ	13	21.511	12.638		1.00	28.70	17
CA	SER	إ ه	13	20.966	11.335	12,408	1.00	28.87	16
CBO		ĮĄ.	13	20.299	11.349	11.037	1.00	29.67	6
c	SER	٦Ą	13	19.060	12.029	11.055	1.00	30.09	8
0	SER	۱À	13	22.102	10.311	12.417	1.00	28.45	16
N	ILE	A	3	21.917	9.172	12.834	1.00	29.17	18
CA	ILE	ΙÂ	3	24.466	10.741	11.973	1.00	28.01	17
CB	ILE	A	3	25,635	9.891 10.555	11.972	1.00	28,28	6
Č	ILE	Ā	3	26.906	9.724	11.223	1.00	27.00	6
č	ILE	A	3	25.237	10.769	9.761	1.00	24.00 25.93	6
ç	ILE	A	3	26.150	11.648	8.942	1.00	25.92	6
Ċ	ILE	Ā	3	24.857	9.551	13.407	1.00	28.54	6
0	ILE	A	3	24,990	8.374	13.750	1.00	29.30	8
N	TYR	A	3	24.886	10.547	14.288	1.00	27.81	7
ÇĀ	TYR	A	3	25.154	10.328	15.705	1.00	27.86	6
CB	TYR	A	3	25.121	11.625	16.505	1.00	25.65	6
С	TYR	A	3	25.927	12,780	15.961	1.00	23.07	6
Ċ	TYR	A	3	25.562	14.087	16.265	1.00	21.60	6
CE	TYR	Α	3	26.286	15.162	15.788	1,00	21.08	6
Ċ	TYR	A	3	27.047	12.591	15.162	1.00	22.29	6
CE	TYR	Α	3	27.769	13,657	14.670	1.00	22.16	6
CZ	TYR	A	3	27.385	14.942	14.990	1.00	21.49	6
0	TYR	Α	3	28.109	16.006	14.503	1.00	22.00	8
C_	TYR	A	3	24.163	9.331	16,298	1.00	28.50	6
0	TYR	Α	3	24.562	8.399	16.999	1.00	29.32	8
N	SER	Α	3	22.883	9.476	15,971	1.00	28.28	7
CA	SER	A	3	21.853	8.550	16.415	1.00	28.66	6
CB	SER	Α	3	20.471	9.074	16.017	1.00	26.37	6
0	SER	Α	3	20.239	10.351	16.586	1.00	24.94	8
С	SER	Α	3	22.059	7.145	15.858	1.00	29.49	6
0	SER	A	3	21,716	6.164	16.523	1.00	29.71	8
N	ILE	Α	3	22.581	7.026	14.644	1.00	29,91	7
CA	ILE	A	3	22.871	5.731	14.041	1.00	30.85	6
CB	ILE	A	2	23.042	5.854	12.518	1.00	29.44	6
<u>C</u>	ILE	Α	3	23,695	4.632	11.898	1.00	24.70	6
C	ILE	À	3	21.671	6.100	11.866	1.00	30.99	6
r ⊤	ा ह	Λ	2	21.746	6 717	10.407	2.00	22.22	- 1

C	ILE	I A	<u> 13</u>	24.097	5.109	14.695	1.00	32.09	6
0	ILE	ĪΑ	ιĬ3	24.031	3.988	15.209			_
N	LEU	i I a	, 13			14.735			_
CA			. 3			15.399			_
CE			_			15.295		_	
C	LEU		_				1.00		_
_			_			13.872	1.00		
ļ <u>c</u>	LEU		_			13.881	1.00		
<u> </u> C	LEU	_	<u> </u>	28.590	5.552	13.191	1.00	25.41	6
lc_	LEU	↓ A	<u> 43</u>	26,230	4.952	16.840	1.00	33.29	6
0	LEU	<u> </u>	<u> 3</u>	26,799	3.947	17.275	1.00	32.95	8
N.	LALA	L A	3	25.381	5.648	17.590	1.00	34.07	7
CA	ALA	A	_ 3	25.047	5.296	18.959	1,00		_
CB	ALA	TA	. 3	24.015	6.269	19.512	1.00	32.60	
C	ALA	IA	3	24.517	3.866	19.051	1.00	36.95	6
Ō	ALA	ĪA	3	24.828	3.138	19.996			
N	LEU		_				1.00	37.29	
CA		إ هٔ	13	23.718	3,445	18.076	1.00	38.32	7
	LEU	₽	3	23.214	2,088	17,983	1.00	39.35	6
CB		ļΑ	3	22,126	1.997	16.905	1.00	38.88	6
C	LEU	$\downarrow A$	3	20.818	2.741	17.188	1.00	39.57	6
C	LEU	ļΔ	13	19.876	2.632	15,997	1.00	38.00	6
C	LEU	A	13	20.150	2.219	18.451	1.00	37.64	6
lc_	LEU	LA	3	24.309	1.071	17.680	1.00	40.04	6
0	LEU	A	3	24.264	-0.056	18.179	1.00	40.72	8
N	ARG	A	3	25.284	1.444	16.859	1.00	39.72	7
CA	ARG	A	3	26.374	0.555	16.489	1.00	39.68	6
CB	ARG	ΙÀ	3	27.145	1.143	15.299	1.00	38.11	16
C	ARG	†Â	3						_
č		_		28.395	0.374	14.912	1.00	36.96	16
	ARG	ļĄ	13	29,233	1.118	13.887	1.00	35.78	16
N	ARG	A	13	30.059	2.153	14.494	1.00	36.32	17
CZ	ARG	ļA.	3	31.013	2.835	13.874	1.00	35.89	6
N_	ARG	A	13	31.282	2.612	12.595	1.00	35.44	7
N	ARG	IA.	3	31,700	3.756	14.537	1.00	37.40	7
C	ARG	I A	3	27.347	0.292	17,632	1.00	40.11	6
LO_	ARG	la	3	27.841	-0.823	17.798	1.00	40.63	8
N	ASP	Α	3	27.683	1.330	18.381	1.00	39.98	7
CA	ASP	IA	3	28.670	1.282	19.440	1.00	40.06	6
CB	ASP	IA	3	29.519	2.566	19.359	1.00	39.64	6
C	ASP	A	3	30.451	2.630	18.176	1.00	40.62	6
ō	ASP	Ā	3	30.287	1.857	17,211	1.00	42.45	8
ŏ	ASP	Ā	3	31.377					_
	ASP	_	_		3.472	18.203	1.00	42.37	8
C		I.A.	13	28.094	1.233	20.843	1.00	40.44	6
	ASP	A	3	28.839	1.293	21.827	1,00	40.41	8
N	GLN	I A	3	26.775	1.261	20.977	1.00	40.68	7
CA	GLN	IA.	3	26.120	1.289	22.279	1.00	41.07	6
CB	GLN	ΙΔ.	3	26.060	-0.110	22.889	1.00	41.34	6
<u> C</u>	GLN	A	3	25.441	-1.157	21.980	1.00	43.02	6
<u>C</u>	GLN	A	3	23.932	-1.101	21.920	1.00	43.88	6
0	GLN	Α	3	23.254	-0.919	22.930	1.00	43.71	8
N	GLN	Ā	3	23.379	-1.258	20.720	1.00	45.09	7
С	GLN	Α	3	26.773	2.285	23.235	1.00	40.94	6
ō	GLN	A	3	26.900	2.032	24.433	1.00	41.47	8
Ŋ,	ALA	Â	3	26.982	3.509	22.772			7
CA	ALA		3				1.00	40.54	_
		A	_	27.526	4.607	23.550	1.00	40.25	6
CB	ALA	A	3_	29.003	4.811	23.267	1.00	39.67	6
C.	ALA	Α	3	26.733	5.869	23.207	1.00	40.54	6
0	ALA	Α	3	26.398	6.083	22.041	1.00	40.55	8
N	VAL	A	3	26.400	6.655	24.220	1.00	40,29	7
CA	VAL	A.	3	25.621	7.873	24.018	1.00	40.33	6
CB	VAL	7	3	24.326	7.849	24.847	1.00	41.69	6
С	VAL_	A	3	23.693	9,228	24.973	1.00	44.15	6
c	VAL	A	3	23.316	6.886	24.230	1.00	42.65	6
Č.	VAL	Ā	3	26.461	9.099	24.356	1.00	39.55	6
ŏ	VAL	Ã	Ī	26.954	9.232				
			3			25.472	1.00	39.88	8
<u>N 1</u>	PRO_	A	3	26.593	10.004	23.392	1.00	38.67	7

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C	PRO	A	\ 3	25.982	9.912	22.044	1.00	38.43	6
CA	PRO	A	1 3	27.341	11.232		1.00		
CE				27.373	11.879		1.00		6
C	PRO		_	26.699	10.959		1.00		
C	PRO			26.686	12.149			_	
6	PRO			25.463	12.195				16
N	PRO		_				1.00		18
C	PRO	_		27.502	12.897		1.00		17
	_		_	28.985	12.873		1.00		6
CA				27.030	13.776		1.00		6
CB		_		28.269	13.948		1.00		6
C.	PRO	_		29.419	13.827	26.307	1.00	34.54	6
LC.	PRO	_	_	26.562	15.158	25.945	1.00	33.33	16
	PRO		3	26.823	15.673	24.864	1.00	32.70	8
N	THR		3	25.873	15.790	26.892	1.00	33.07	7
CA	THR	LA	<u> </u>	25.505	17.193	26.785	1.00	33.34	6
CB	THR	A	. 3	24,125	17.525	27.365	1.00	32.36	6
0	THR		. 3	23.125	16.690	26.775	1.00	34.77	8
C	THR		3	23.787	18.987	27.116	1.00	30.68	6
C	THR		13	26.572	17.928	27.607	1.00	33.64	6
0	THR		3	26.393	17.987	28.824	1.00	34.29	8
N	ILE	A	3	27,709	18.280	27.019	1.00		7
CA	ILE	TA	3	28.753	18.913	27.829		33.67	_
СВ	ILE	IA	3	30.091	19.062	27.090	1.00	34.08	6
c	ILE	ĪĀ	3	30.542			11.00	31.83	6
č	ILE	A	3	30.011	17.710	26.551	1.00	31,40	6
Č	ILE	Ā	3		20.091	25.963	1.00	31.66	6
č	ILE	A	3	31.348 28.267	20.624	25.497	1.00	27.91	6
ŏ	ILE	$\overline{}$	3		20.259	28.343	1.00	34.65	16
N.	ASN	A	3	27,273	20.813	27.877	1.00	34.80	8
CA	ASN	Â	3	28,953	20.806	29,338	1.00	35.52	7
CB	ASN	A	3	28.678 28.564	22.085	29.954	1.00	36.17	6
C	ASN	A	3	29.853	23.192	28.895	1.00	37.53	6
ŏ	ASN	A	3	30.942	23.478 23.435	28.157	1.00	39.33	6
N	ASN	A	3	29.725	23.759	28,729 26.865	1.00	41.49	8
Ç	ASN	A	3	27.438	22.141	30.834	1.00	38.26	17
ŏ	ASN	Ä	3	27.059	23.240	31.267	1.00	37.42 36.65	6
N	LEU	Ä	3	26.805	21.021	31.152	1.00	39.20	7
ÇA	LEU	Ā	3	25.583	21.032	31.951	1.00	41.87	6
СВ	LEU	A	3	24.686	19.861	31.559	1.00	39.97	6
С	LEU	Ā	3	23.296	19.758	32.183	1.00	39.36	6
Ċ	LEU	A	3	22.575	21.095	32.216	1.00	39.37	6
C_	LEU	A	3	22.457	18.727	31.438	1.00	37.75	6
Č	LEU	A	3	25.891	21.037	33,443	1.00	44.02	6
ō	LEU	A	3	25.739	20.048	34.153	1.00	43.56	
Ň	ASP	Ā	3	26,281	22.205	33.940	1.00	46.66	7
CA	ASP	A	3	26.700	22.407	35.311	1.00		_
СВ	ASP	A	3	27.590	23.656			49.49	6
C	ASP	A	3	28.868	23.531	35.391		50.43	6
Ŏ.	ASP	Ä	3	29,356	24.568	34.591	1.00	50.97	6
ŏ	ASP	A	3	29.393		34.092	1.00	52.47	8
č_	ASP	Â	3	25.533	22.406 22.583	34.463	1.00	51,53	8
ŏ	ASP	Â	3	25.652	22.273	36.271	1.00	51.39	6
N	ASN	Â	3	24.415	23.097	37,457	1.00	52.19	8
CA	ASN	A	3	23.240	23.333	35.773	1.00	52.98	7
CB	ASN	A	3	23.354	24.718	36,597	1.00	54.38	6
č	ASN	Â	3	23.817	24.718	37.246	1.00	55.67	6
ŏ.	ASN	A	3	23.364		38.683	1.00	56.56	6
N	ASN				23.912	39.498	1.00	58.64	8
c l		A	3	24.732	25.628	39.001	1.00	54.49	4
6	ASN	A	3	21.945	23.281	35.796	1.00	55.65	6
	ASN	A	3	21.533	24.272	35.192	1.00	55.61	8
N	PRO	A	3	21,269	22.139	35.827	1.00	56.99	-
C CA	PRO	A	3	21.700	20.916	36.544	1.00	56.97	6
	PRO	A	3	20,000 19 505	20.603	35.149	1.00	58.36	6
∪¤ I	rau l	A	.3	13.3U5 1	ZU 603 1	35 n.33	1 00 1	57 79 1	6 (

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ļç	PRO		_				1 1.00	0 60.2	5 6	
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	BIASP	_								- 무
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0	ASP			15.724	27.026	_				j lö
10	ASP		_		26.358			66.29	8	l N
C	ASP		_		23.894					J C
N	GLU				22.683				_	<u> </u>
C.A				14.574	24.425	_			_	네 15
CE	_	_		13.891	25.670					일이의이지 않
C	GLU		_	12.875	26.305					1 6
lç.	GLU		_	11.769	27.059			82.31	6	N
용	GLU		_	10.586	26.784				_] <u> c</u> .
C	GLU	_		12.072	27.930				_	<u> </u> C
0	GLU	_	_	13.522 13.282	23.369	37.350 38.198			_	CCC
N	GLY		3	12.857	23.430					
CA		_	3	11.854	22.436		_	_		N CI
C	GLY		3	12.445	21.469				_	N
16	GLY	_	3	11.937	21.288	33.703	1.00	74.73		N C
N CA	CYS	٦×	13	13.556	20.859	35.182		_	7	J LO
	CYS	A	3	14.279 15.607	19.887 20.434	34.372	1.00		16	X
SG		A	3	15.467	21.537	33.873 32.442	1.00	74.61 75.82	1	I C
C	CYS	Â	3	14.457	18.656	35.264	1.00	72.43	6	CE
0	CYS	Α	3	14.589	18.836	36.482	1.00	72.96	8	C C
N CA	ASP	A	13	14.240	17.458	34.736	1.00	70.74	7	0
CA CB	ASP	A	3	14.193	16.275	35.592	1.00	68.42	6	0
C	ASP	 A	3	12,750	16.087 16.349	36.082	1.00	73.06 76.10	15	<u> </u>
Ō	ASP	Ā	3	12,705	17.519	37.563 37.983	1.00	77.34	8	O N
0	ASP	A	3	12.283	15.389	38.308	1.00	77.87	8	CA
C	ASP	A	3	14.644	15.011	34.878	1.00	65.39	6	CB
0 N	ASP	ļĄ.	3	14,655	13.929	35,468	1.00	65.66	8	C
CA	LEU	A	3	14.976	15.137	33.600	1.00	61.63	17	0
CB		Â	3	15.371 14.923	13.988 14.189	32,798 31,345	1.00	57.08 55.81	6	N CA
C	LEU	Â	3	13.488	14.681	31.137	1.00	54.21	6	CA CB
С	LEU	Α	3	13.376	15.503	29.863	1.00	53.80	6	C
도	LEU	A	3	12.523	13.506	31.107	1.00	53.91	6	С
C	LEU	A	3	16,876	13.755	32.832	1.00	53.93	6	N
N	ASP	A	3	17.651 17.279	12.559	33.214 32.412	1.00	53.81	3	CZ
CA	ASP	Â	3	18.700	12.559 12.234	32.329	1.00	50.75 47.57	7	N N
CB	_	A	3	18.957	10.737	32.446	1.00	47.56	6	C
С	ASP	A	3	20.434	10.393	32,426	1.00	47.70	6	Ō
9	ASP	A	3	20.789	9.300	31.938	1.00	48.81	8	N
2	ASP	A	3	21.250	11.214	32.895	1.00	48.47	8	CA
0	ASP	A	3	19.226	12,766	30.995	_	45.22	6	CB
N	PHE	A	3	19.021 19.926		29.939 31.053	1.00	43.88 43.38	7	. <u>C</u>
CA	PHE	A	3			29.873		42.15	6	C O
СВ		Ã.	3			30.088		41.31	6	N
C	PHE	Α	3	19.057		30.234		42.33	6	Ç
č	PHE	A	3			31.366	1.00	42.04	6	0_
C	PHE	A	3			29.250			6	N
CE	PHE	A	3			31.515 29.391			6	CA
CZ	PHE	Â				30.526			6	CB C
С	PHE					29.516			6	Ċ

	_	_														
	0	_	PH	E	A	3	22	2.597	1 14.87	4 28	844	1.0	οĪ	40.	33	8
	N		! VA		A	13	1 22	2.307	1 12.97	2 29	970	1.0	_	40.	_	7
	LC.	A	VA	L	A	13	23	1.650	12.44	8 29	776	11.0		40.	_	6
	LC	В	VA.	L	A	3	23	.391	11.81		403	1.0	_	38.		6
	LC	_	VA	L_	Α	13	25	.173	10.99		427	11.0	_	36.	_	6
	C		VA	L	Α	13	22	.727	10.93		974	1.0		38.		6
	C		VA	L	A	3	1 24	.659		_	056	1.0	_	40.		6
	ि		VA	L	A	3		385			186	1.0		40.		8
	N		PRO		A	3		.700			313	1.0		40.		7
	C		PRO	_	Ā	3		.800			404	11.0	_	40.8		6
	C	4	PRO		A	3		.309		_	696		_	_		-
	CI		PRO		Ā	3		.114	15.34			1.0		40.9		6
	C		PRO	_	A	3		.428	14.10		216	+ ***	_	40.9		6
	C		PRO		A	3		.734			638	1.0	_	40.7		6
	ŏ	┪	PRO	_	A	3		904	15.59			1.0		<u>41.1</u>		6
	N	┪	HIS	$\overline{}$	A	3		.780	16.76			1.00		42.2		8
	Ĉ/	╗	HIS		A	3			14.80	_		1.00	_	40.9		7
	CE	_				_		125	15.32		_	1.00		40.8		6
	c	4	HIS		Ă-	3		855	15.67	_		1.00		40.6	_	6
ŀ	c	4	HIS	+	Ă.	3		399	16.966			1.00		<u> 10.7</u>	_	5
i	N	+	HIS	+	Ą.	3		717	18.252			1.00		11.5		6
	CE	,†	HIS	- +	Ă-	3	128	427	17.004			1.00	_	11.7		7
i	N	4	HIS	+	Ă.	3		196	18.257			1.00		10.8	2	6
i		+	HIS	+	<u> </u>	3		964	19.035			1.00		2.1		7_
	č	┽	HIS	+	Ą.	3		998	14.402			1.00		0.8		6
ı	0	+	HIS	+	Ă.	3		<u>871</u>	14.875			1.00	_	9.8		8
ł	N.	+	GLU		Ą.	3		799	13,098			1.00	4	1.8	2.	7
ł	CA	4	GLU		Α.	3		603	12.134			1.00		2.6		6
ŀ	CB	4	CLU		Щ	3		560	11.395			1.00	44	8.0	0	6
ł	<u>ç</u>	╁	CLU		Ą	3.		025	11.769			1.00		4.3		6
ŀ	<u>ç</u>	┿	GLU	_	Ч	3		949	10.601	30.9		1.00		8.7		6
ł	<u>۰</u>	_	GLU	_	A.	3	34.		10.398			1.00	-	2.1	1	8
ŀ	ŏ		GLU		Δ.	3_		320	9.878	29.9		1.00		0.10		8
ŀ	<u>ç</u>		CLU		٨.	3	29.		11.143	29.1		1.00	14	1.9	Ц	6
ŀ	<u>o</u>		CLU		۲	3	28.		10.976	29.5		1.00		1,01		8
ŀ	N		<u>ALA</u>		4	3	30.		10.524	28.1		1.00		1.83		7
ŀ	<u>ÇA</u>		<u>ALA</u>		4	3	29.4		9.543	27.3		1.00	14	1.6	4	6
ŀ	<u>CB</u>		٩Ļ٨	_	4	3	30.3		8.960	26.2	_	1.00		1.62		<u>6</u>
ŀ	č -	т-	<u>ALA</u>	_	4	3	28.9		8.436	28.2		1.00		1.80		6_
۱	<u>0</u>		<u>ALA</u>	_	4	3_	29.6		8.012	29.1	_	1.00		1.92		Ш
H	N_		ARG	4		3	27.7		7.999	28.0		1.00	4	1.60	1	Ц
	CA		ARG	4		3	27.		6.905	28.8		1.00		2.84		8
	<u>CB</u>		ARG	44		3	25.7		7.170	29.2		1.00		0.27		<u>.</u>
	<u>ç</u> _		ARG	4	-	3	25,1		6.134	30.2		1,00	39).78	4	IJ
	<u>c</u> _		ARG	4	_	3	25.3		6,599	31.6	_	1.00		3.06		
	<u>N</u>	7	ARG.	14		3	24.2		7.589	32.0		1.00		3.84	1	긻
	<u>CZ</u>		VRG	+4	_	3	24.5		8.880	32.19		1.00		l. <u>57</u>	10	_
	<u>N_</u>		LRG	14		3	25.7		9.349	32.07		1.00		3.04	Į.	_
	N_		VRG	14		3	23.5		9.711	32,49		1.00		.78	نل	Ц
	<u>C</u>		VRG	14		3	27.2		5.603	28.07		1.00		<u> 36</u>	16	
	0		RG	ļ٨		3	27.2		5.612	26.85		1.00		.45	٤	
	<u></u>		LN	ļ.	_	3	27.4		4,502	28.78		1.00		.51	17	┙
	CA		<u>LN</u>	ļΑ	_	<u> </u>	27.5		3.181	28.15		1.00	39	.98	- 6	
	CB.		LN	AĻ	_	3	28.5		2.309	28.85	1	1,00		.17	16	
	2		LN	ļΔ	_	3.↓	28.5		0.840	28.47		1.00		.05	6	
	2		LN	Α		3	29,3		0.558	27.21		1.00	41	.53	16	
	2		LN	ļ٨		3.↓	28.8		-0.009	26.25	1	1.00	44	.79	8	╝
	<u> </u>		LN	A		3	30,6		0.959	27.22		1.00	40	.43	1	_]
(LN	A	نل		26.1		2.558	28.26	0 [1.00		,51	T6]
($\overline{}$		LN	Α	Ţ;		25.49		2.744	29,28		1.00		.97	Ι8]
_	<u>1</u>		AL.	A	نا	Ц	25.6	44	1.971	27.18		1.00		.03	7	
	ZΑ		AL	Α	43		24.3	32	1.327	27.19	9 📑	1.00		.60	6	1
	<u>Β</u>		AL	Α	3	ıŢ	23.2	34	2.055	26.41		1.00		27	6	
C	<u>: I</u>	V	AL	Α	L	J	22.9	17 T	3.429	27.00	_	1.00		12	6	٦
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O GLY A 3 18.326 -2.538 24.022 1.00 42.94 8 N MET A 3 20.167 -1.367 23.500 1.00 43.71 6 CA MET A 3 19.440 -0.299 22.522 1.00 43.71 6 CB MET A 3 19.642 2.207 22.321 1.00 43.01 6 CD MET A 3 20.366 3.767 22.774 1.00 43.01 6 CE MET A 3 19.192 -0.651 21.361 1.00 44.30 6 C MET A 3 19.192 -0.651 21.361 1.00 44.01 8 O MET A 3 19.192 -0.626 20.941 1.00 44.01 8 C GLU A 3 16.583 -2.106 19.526 1.00 <td></td> <td>GLY</td> <td>I A</td> <td>13</td> <td>20.429</td> <td>-3.435</td> <td>24.741</td> <td>1.00</td> <td>42,12</td> <td>6</td>		GLY	I A	13	20.429	-3.435	24.741	1.00	42,12	6
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CA MET A 3 19.440 -0.299 22.522 1.00 43.71 6 CB MET A 3 20.230 1.004 22.944 1.00 43.69 6 SD MET A 3 19.642 2.207 22.322 1.00 43.01 6 SD MET A 3 21.976 3.688 21.993 1.00 42.01 6 CE MET A 3 19.192 -0.651 21.361 1.00 44.01 8 O MET A 3 17.587 -0.949 9.560 1.00 45.44 7 CA GLU A 3 16.583 -2.106 19.526 1.00 57.87 6 CB GLU A 3 16.583 -3.550 18.615 1.00 57.87 6 C GLU A 3 16.294 -3.293 1.00 61.00 <td>0</td> <td>GLY</td> <td>A</td> <td>3</td> <td>18.326</td> <td>2.538</td> <td>24.022</td> <td>1.00</td> <td>42.94</td> <td>8</td>	0	GLY	A	3	18.326	2.538	24.022	1.00	42.94	8
CB MET A 3 20.230 1.004 22.944 1.00 43.69 6 C MET A 3 19.642 2.207 22.232 1.00 43.01 6 SD MET A 3 20.366 3.677 22.774 1.00 43.68 1 CE MET A 3 19.192 -0.651 21.361 1.00 44.30 6 C MET A 3 19.192 -0.651 21.361 1.00 44.30 6 C MET A 3 19.192 -0.626 20.941 1.00 45.44 7 CA GLU A 3 16.583 -2.106 19.526 1.00 45.44 7 CB GLU A 3 16.984 -3.255 18.615 1.00 61.07 6 CB GLU A 3 16.263 5.350 19.485 1.00 <td>N</td> <td>MET</td> <td>IA</td> <td>3</td> <td>20.167</td> <td>-1.367</td> <td>23.500</td> <td>1,00</td> <td>43.16</td> <td>17</td>	N	MET	IA	3	20.167	-1.367	23.500	1,00	43.16	17
CB MET A 3 20.230 1.004 22.944 1.00 43.69 6 C MET A 3 19.642 2.207 22.232 1.00 43.01 6 5 5 5 MET A 3 20.366 3.767 22.774 1.00 43.68 1 CE MET A 3 21.976 3.688 21.993 1.00 42.01 6 C MET A 3 21.976 3.688 21.993 1.00 44.01 6 C MET A 3 21.976 3.688 21.993 1.00 44.30 6 C MET A 3 20.141 0.930 20.627 1.00 44.01 8 A C C MET A 3 17.587 0.949 19.560 1.00 45.44 7 C C GLU A 3 17.587 0.949 19.560 1.00 45.44 7 C C GLU A 3 16.583 2.106 19.526 1.00 52.33 5 C GLU A 3 16.263 5.350 19.485 1.00 57.33 5 C GLU A 3 16.263 5.350 19.485 1.00 61.07 8 C GLU A 3 16.263 5.350 19.485 1.00 61.67 8 C GLU A 3 17.177 0.304 17.565 1.00 46.35 6 C GLU A 3 17.177 0.304 17.565 1.00 46.35 6 C GLU A 3 17.177 0.304 17.565 1.00 46.77 6 C GLU A 3 17.177 0.304 17.565 1.00 45.74 7 C G TYR A 3 13.194 1.272 18.401 1.00 45.77 6 C TYR A 3 13.194 1.272 18.401 1.00 45.77 6 C TYR A 3 13.194 1.272 18.401 1.00 47.57 6 C TYR A 3 13.194 1.373 17.051 1.00 48.73 6 C TYR A 3 13.194 1.373 17.051 1.00 48.73 6 C TYR A 3 13.192 1.313 17.051 1.00 48.28 6 C TYR A 3 13.192 1.313 17.051 1.00 48.28 6 C TYR A 3 13.495 1.313 17.051 1.00 43.38 6 C TYR A 3 16.662 3.827 20.482 1.00 43.12 8 C TYR A 3 16.362 3.827 20.482 1.00 43.12 8 C TYR A 3 16.362 3.827 20.482 1.00 43.12 8 C TYR A 3 16.362 3.827 20.482 1.00 43.12 8 C TYR A 3 16.962 3.827 20.482 1.00 43.12 8 C TYR A 3 16.962 3.827 20.482 1.00 43.38 6 C TYR A 3 16.960 5.965 17.995 1.00 43.96 6	CA	MET	LA	3	19.440	-0.299	22.822	1.00	43.71	6
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N ASN A 3 15.558 14.388 16.852 1.00 33.84 7	디		A	3	15.483	13.347	16.038	1.00	33,67	6
	<u> </u>		A					1.00	34.22	
	N		_		15.558	14.388	16.852	1.00	33.84	7
	CAL	ASN	A	3		15.523	16,801	1.00	33.60	6

CE	3 ASN	LA	13	14.226	15.790	18.260	1.00	36.16	16
C	ASN	ΠA	. 3	13.048	14.951	18.697	1.00		6
0	ASN	IA	13	12.375	14.313	17.887	1.00		18
N	ASN		_	12.774	14.966	19.997	1.00		17
C	ASN		_	15.191	16.827	16.233	1.00		6
ō	ASN		3	16.246	17.325	16.617	_		
N	SER	1A							18
_				14.373	17.483	15.413	1.00		17
CA		Ļ٨	3	14.676	18.793	14.851	1.00		6
CE	_	48	3	15.200	18.682	13.422	1.00		16
0	SER	+A	13	16.598	18.874	13.359	1.00	31.26	18
C	SER	ŲA	13	13.416	19.656	14.860	1.00	31.57	6
	SER	A	3	12,435	19.319	14.194	1.00	31.75	8
N	PHE	I A	13	13.415	20.722	15.649	1.00	30.83	17
CA	PHE	A	13	12,270	21.619	15,761	1.00	31.51	6
CB	PHE	A	3	111.712	21.643	17.185	1.00	31.46	6
C	PHE	ĪΑ	3	11.529	20.317	17.862	1.00	32.87	6
С	PHE	Ā	3	12.125	20.065	19.087	1.00	33.75	6
C	PHE	ĪĀ	3	10,774	19.310	17.280	1.00	33.53	6
CE		Ā	3	11.976	18.843	19.714	1.00	33.89	16
CE		Ä	3	10.633	18.082	17.894	1.00		
CZ	PHE	Ā	3	11.227				35.78	6
C	PHE	TA	_		17.850	19.119	1.00	33.73	16
ō.	PHE		3	12,688	23.029	15.347	1.00	31.43	16
N		ļĄ		13.279	23.753	16,150	1.00	31.64	8
	CLY	₽Ÿ	3	12.398	23.442	14.116	1.00	31.34	17
CA	GLY	 A	3	12.972	24.648	13.571	1.00	30.81	6
-	GLY	ļĄ	13	12.146	25.906	13,465	1.00	30.77	6
10.	GLY	łĄ	13	10.939	25.956	13.680	1.00	29.83	8
N	PHE	ļA	14	12.847	26.982	13,095	1.00	31.24	17
LCA	PHE	ĮĄ.	14	12.239	28.297	12.897	1.00	31.72	16
CB	PHE	A	14	13.280	29.283	12,373	1.00	35.13	6
<u>ç</u>	PHE	ĮĄ.	4	14.430	29.453	13.330	1.00	37.25	16
C_	PHE	ļĄ.	4	15.692	28.998	13.002	1.00	39,09	6
<u> </u>	PHE	ĮĄ.	14	14.245	30.067	14.558	1.00	38.34	6
CE	PHE	ļĄ	14	16.752	29.147	13.876	1.00	38.52	6
CE	PHE	∤ A	4.	15.299	30.220	15.436	1.00	38.09	6
CZ.	PHE	ļĄ.	4	16.555	29,759	15.095	1.00	37.29	6
Č.	PHE	ļĄ.	4	11.042	28,155	11,971	1.00	30,64	6
0_	PHE	A	4	11.052	27.334	11.054	1.00	30.82	8
N	GLY	A.	4	9.976	28.894	12.261	1.00	29.80	17
CA	GLY	A	14	8.742	28.810	11.489	1.00	28.76	6
<u>c</u>	GLY	ļ٨.	14	7.805	27.760	12.082	1.00	27.97	6
0_	GLY	A	4	6.727	27.488	11.554	1.00	28,67	8
N	GLY	A	4	8.217	27.113	13.162	1.00	26.86	7
CA	CLY	IA.	4	7.475	26.074	13.835	1.00	26.12	6
c	GLY	IA.	4	7.370	24.786	13.036	1.00	26,70	6
0	GLY	Α.	4	6.376	24.071	13.171	1.00	27.71	8
N	THR	A	4	8.377	24,450	12.237	1.00	25.43	7
CA	THR	Α	4	8.323	23.222	11.440	1.00	24.02	6
CB	THR	A	4	8.749	23.499	9.993	1.00	21.80	6
0_	THR	A	4	8.766	22,279	9.243	1.00	19.29	8
<u>C</u>	THR	Α	4	10.113	24.167	9.915	1.00	20.36	6
C	THR	Α	4	9.131	22.138	12.134	1.00	24.60	6
0	THR	A	4_	10.324	22.291	12.401	1.00	24.92	8
N	ASN		4	8.455	21,061	12.542	1.00	24.70	7
CA	ASN	Α	4.	9.067	20.005	13.322	1.00	24.60	6
CB	ASN	À	4	8.250	19.701	14.591	1.00	23.50	6
C	ASN	Α	4	7.907	20.924	15.404	1.00	23.01	6
0	ASN	A	4	8.801	21.625	15.878	1.00	26,17	В
N	ASN	A	4	6.616	21.179	15.556	1.00	22.16	7
C	ASN	A	4	9.204	18.667	12.604	1.00	24.49	6
0_	ASN	Ā	4	8.407	18.309	11.745	1.00	24.10	8
N	GLY	Α	4	10.187	17.896	13.071	1.00	24.98	7
CA	GLY	Α	4	10.420	16.572	12.516	1.00	26.39	6
C	CIV	~	Ā	11 169	15 675	13 491	1.00	26.59	

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lo	GL	ΥĮ.	A L	1 11.94	4 16.12	6 14.32	7 1.00	27.3	2 8
N	SEI	R .	A	1 10.92					_
C.			_	11,58					
C			A I						
Ĭŏ	SE		A G	_					
_		_	$\overline{}$						
Č	SEF		14					28.7	2 6
0	SEF		<u> 4 4</u>	11.003	3 11.76	6 12.495	1.00	29.3	1 8
N	LET	<u> </u>	<u> 1</u>	13.016	11.52	3 13.484	1.00	28.5	7 7
C	A LEI	IL	وله	13.348	10.30		1.00	_	_
C	BLET	7 7	4			4 11.819		_	
C	LET		1 4						_
C	LET							_	_
Č		_	_				1.00	_	_
	LEU						1.00		2 6
JC.	LEL	- 1				13.777	1.00	29.89	6 6
0	LEU	116	1 4			14.906	1.00	30.25	<u>L</u> B
N	ILE		14	13.195	7.972	13.474	1.00	30.42	7
C.	LILE	_18	14	13.409	6.837	14.359		31.78	
CE	3 ILE					14.866		30.94	
C	ILE		_	12.444		15.599	_		_
Č	ILE						1.00	32.61	
Č				11.340		15.798	1.00	30.59	
	ILE	-14	_	10.007		16.250	1.00	32.84	16
C	ILE	44		14.260		13.630	1.00	33.11	6
0	ILE		4	13.939	5.388	12.516	1.00	32.58	8
N	PHE	LA	14	15.342	5.376	14.279	1.00	34.56	7
CA	PHE	LA	4	16.240	4.388	13.690	1.00	36.29	6
CE			4	17.655	4.958	13.596	1.00	36.33	6
C	PHE		14	17.792	6.083	12.608	1.00	36.69	6
C	PHE		4	17,659	7,400				
C	PHE	_	$\overline{}$			13.015	1.00	36.61	6
CE			4	18.034	5.823	11.268	1.00	36.58	<u> 6</u>
		_	44	17.780	8.437	12,109	1.00	36,25	16
CE		_	14	18.160	6.856	10.360	1.00	35.22	6
CZ		▗▗	4	18.036	8.164	10.780	1.00	34.67	6
C	PHE	┸	14	16.212	3.087	14,484	1.00	37.64	6
LQ	PHE	LA	4	15.945	3.087	15.685	1.00	37.30	8
N	LYS	ĪΑ	4	16.428	1.970	13,796	1.00	39.20	7
CA	LYS	ĪΑ	4	16.389	0.662	14.445	1.00		6
CB		Ā	4	15,108	-0.070			41.08	
C	LYS	<u></u> IÂ	_			14.064	1.00	43.25	6
			14	15,203	-1.551	13.771	1.00	45,80	6
C_	LYS	ļ٨	14	14,079	-2.339	14.425	1.00	49.50	16
CE	LYS	↓Δ.	14	13,749	-3,586	13.620	1.00	51.82	6
NZ	LYS	14	14	14.971	4.355	13.251	1.00	54.38	7
LC_	LYS	A	14	17.644	-0.138	14.115	1.00	42.37	6
0	LYS	IA	4	18.085	-0.196	12.970	1.00	41.82	8
N	LYS	A	4	18.215	-0.759	15.142	1.00	44.35	7
CA	LYS	Ā	4	19.416	-1.569	14.990	1.00		
CB	LYS	Ä	4	20.013				46.87	6
		_	-		-1.879	16.366	1.00	49.16	6
<u>c</u>	LYS	A	4	21.527	-1.964	16.399	1.00	<u>52.66</u>	6
<u>c</u>	LYS	14	4	22,016	-3.371	16.089	1.00	54.95	6
CE	LYS	10	14	23,498	-3.518	16.391	1.00	56.19	6
NZ	LYS	A	4	24.349	-3.018	15.277	1.00	56.91	7
C	LYS	A	4	19.104	-2.876	14.269	1.00	48.27	6
0	LYS	A	4	18.169	-3.580	14.652	1.00	48.31	8
N	ILE	A	4	19.868	-3.191	13.230		50.03	_
CA	ILE		4				1.00		7
		ļĄ.		19,704	4.461	12.522		51.93	6
CB	ILE	A	4	19.304	4.278	11.053		53.55	6
پا	ILE	A	4_	19.778	-5.421	10.163	1.00	54.48	6
C.	ILE	A	4	17,777	-4.145	10.945	1.00	53.27	6
C	ILE	A	4	17.291	-3.765	9.564		54.97	6
C	ILE	A	4	20.994	-5.269	12.659		52.78	6
0	ILE	A	4	21.398	-5.522	13.816		54.07	8
01	WAT	W	5	21.478	17.601	19.536			_
01	WAT	w	5					19.73	ᆁ
				21,076	20.754	-2.535		16.84	8
01	WAT	W	5	26,737	32,257	19.752		20,81	8
01	WAT	W	5	28,234	30.811	2.839	1.00	19.99	8

Ε	01	WA	T	w	5	24.64	8	28.10	3 I	4.390	_	1.0	'n	124	.17	T	8
	01			w	5			18.18		17.06		1.0		_	_49	_	8
	01	WA	TI	w	5			27.39		5.435	Ť	1.0	_		1.74		8
Ĺ	01	WA	τŢ	W	T 5			26.72		23.05	<u>.</u>	1.0	_		.80		8
	Q1	LWA		w	5			26.46	_	7.960	~	1.0			.01		8
	01	WA		w	5		0	-0.832	_	-1.565	. 1	1.0			.35		8
- [01	WA		W	5	23.40		42.29		15.101		1.0	_		.31		3
	<u>QI</u>	WA		w	5	22.52		37.58	_	20.198	_	1.0			.72	_	<u>s</u>
E	01	WA		W	5	35.693		38.96	_	-9.343	_	1.0	_	_	.45	_	8
	01	WA		w	5	8,464		1.674	_	8.701	+	1.0		;	.55		8
	01	WA		W	5	14.310	5	29.89		19.439	, †	1.0			.00	_	8
Ę	01	WA	ΤĪ	w	5	10.440		4.010		6.351	1	1.0	_		.78		9
- [Q1	WA'		w	5	9.624	┪	13.27		34.855	7	1.0			.76	_	3
	01	WA	rΤ	w	5	31.169	7	43.463		9.374	_	1.0			.95	Τį	_
	01	WA	П	w	5	37,224		13.856	_	2.117		1.0			.60	18	
	οī	WA'		w	5	0,645	7	16.105		12.588		1.0	1		.59	١٤	
- [οı	WA'		w	5	1.627	┪	11.628	_	29.727	_	1.0			16	١٤	
- [3	01	WA'	ri	W	5	13.937	,	1.427	_	6.436		1.0	j	51.		18	
Œ	21	WA'		W	5	30.994		42.927		5.494		1.0			60	18	
	21	WA:		W	5	31.903		36.386		2.731	_	1.00	_	52.		8	_
	21	WA'	ď	W	5	8.997	┪	5.935	_	10.23		1.00	_	49.		8	
	<u> </u>	WA		W	5	41.291	7	24.980		1.863		1.00		52.		8	
	21	WA1	ī	×	5	4.756	7	26.898		0.457		1.00		58.		8	
	21	WA1	ď	W	5	11.584	1	26.160	_	7.142	_	1.00	_	53.		8	
	21	WAT		V	5	33.094		30,228	_	2.080		1.00		57.		8	
	21.	WAT		W	5	5.401		-7.420	_	3.608		00	_	57.		8	_
)1	WA1		N	5	-0.837		26,774		8.246	_	1.00	_	50.		8	
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L		CB	ĮĮ,	┙	В	2	Ι.	5.685	3	.199	I.		Т	0.00	,	0.	٦
2	_	CG	11	4	В	2	1.	5.545	4	.098	Ŀ			0.00		0.	٦
3	_	CD	11	4	В	2	J-	4.260	3	812	Ŀ		I	0.00		0.	٦
4	_	CE	ļL,	_	В	2	Ŀ	3.315	5.	.000	ŀ		_	0.00		0.	٦
5	4	NZ_	L	4	B_	2	Ŀ	2.850	5.	406	٦.		_	0.00	_	Ō.	٦
6	4	<u>c</u>	14	4	В	2	Ŀ	6.109	5.	140	Ŀ			0.00		Q.	1
1	4	0	ļL,	4	Ы	2	Ŀ	7.335	5.	109	Ŀ		Ι	0.00		0.	7
8	4	N	11	_	ВЦ	2	Ŀ	5.524	2.	911	ŀ			0.00		٥.]
9	4	CA	L	_	В	2	Ŀ	5.318	3.	855	Ŀ		I	0.00		Q.	J
N	1	ARG	B		3	-5.409		.268	1-1	.248	O.	00	L	2.00	\Box	7]
C		<u>ARG</u>	B		3.↓	-6.048	17	.556	٠١	.019	ĹŌ.	00		0.00	\Box	6]
C	В↓	ARG	B	_	3	-5.523		.164	O.	286	Q.	00		00.0		6]
Ç	4	ARG	B	_	3	-6,160		.568		531	ō.	00		0.00	\Box	6]
C	4	ARG	В	_	1	-5.244	7	.692		73 <u>6</u>		00		0.00	I	6	I
N	4	ARG	В	Į:	3	-5.086	9	.074	3.	168	0.	00	C	0.00		7]
C		ARG	B	Į:		-5.833	9	.683	4.	077	0.	00	0	00.0	\Box	6]
N		<u>ARG</u>	B	Ŀ		-6.834	9	.048	4.	674	0.	00	0	.00	I	7	
N		ARG	B	نا	$\overline{}$	-5.580	1	0.947	4.	395	0.	00	0	.00	$oldsymbol{\mathbb{I}}$	7	J
C		ARG	В	نل		-5.845		535	-2	167	0.	8	0	.00	$oldsymbol{ol}}}}}}}}}}}}}}$	6	l
0		ARG	В	نل	Ц	-4.724	8	919	-2	498	0.	00	0	.00	\Box	8	Ì
N		ARG	В	14	Ц	-6.958	8	957		759	0.6	00		.00		7	l
Ç		ARG	B	14	Ц	-6.949		879		884	ő			.00	_	6	
CI		ARG	В	14	Ц	-8.191	9	657		753	0.0			.00		6	ĺ
С	4	ARG	В	14	4	-8.287		262	-5.	351	0.0	20	0	.00		6	
C		ARG	В	4		-9.716	7.	922	-5,	750	0.0	00	0	.00	\Box	6	l
N		ARG	В	4	\perp	-10.353		005_		482	0.0			.00	_	7	l
CZ	4	ARG	В	4		-11.372	8.	909		320	0.0			.00		5	
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1	V.	AR	3	B !	4 -11.8	38 10.00	4 -7.91	1 0	00.0100	1 I	7
-10	;	ARG	3 T	вГ	4 -6.88						
To	,	ARG	_		4 -7.46			_			6
- 13		I VAI		_	6.150						8
	À	VAI	_	_							7
	B						_				6
_	_	VAI			4.499					1	6
<u>C</u>	_	VAI	_		4.375		0 -3.320	0.0	<u> 0.00 </u>		6
C		VAL			3 -3.712	13.04	<u>6 -2.877</u>	7 0.0	0.00)	6
LC	<u>; </u>	VAI	. 1	<u> 3 3</u>	-6.649	14.42	3 -4.953	3 0.0	0.00		6
LC	<u> </u>	VAL	. Tı	3 T :	-6.439	14.23					8
- N	I_	VAL	. 11	3 [6							7
ГС	Α	VAI	. 1							_	_
_	В	VAL		_							6
ď	_	VAL									6
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Ç	-	VAL	4								<u> </u>
عا	_	VAL	45	_				0.0	<u>0 0.00</u>		i.
ļo		VAL	_	_		18.03	-3.954	0.0	0 0.00	_ [8	3
N		VAL	<u> </u>	1 7	-8.082	18.64	7 -5.981	0:0	0 0.00	17	7
C	A	VAL	B	1 7	-7.829	20.072		0.0		- 6	
C	В	VAL	ΤB	7	-7,171	20.70		0.0		6	
С	П	VAL	B	17	-6.746	22,142		0.0		6	
C	7	VAL	В		-5.973	19.884		0.0			
C	┪	VAL	Ī		9.141					- 6	
ŏ	╛	VAL	B			20.780		0.00		- 6	
N.	4			_	-10.05			0.00		8	
_	. +	THR			-9.248	21.344		0.00		7	
C		THR	<u> </u>	_	-10.46			0.00	0.00	- 6	
LCI	Вĺ	THR	<u>↓B</u>	8	-10.96	0 21.391	-2.496	0.00	0.00	6	
0	4	THR	<u>↓B</u>	8	-10.01	2 21.721	-1.470	0.00	0.00	8	
С	4	THR	B	8	-11,120	19.888	-2.579	0.00	0.00	6	٦
C	\perp	THR	B	8	-10.36	7 23.504	-3.600	0.00		6	
0	\perp	THR	В	8	-11.29	24.068	-3.004	0.00		8	
N	T	GLY	В	19	-9.286	24.153	4.005	0.00		7	ヿ
C/	₹T	GLY	B	9	-9.144	25.589	-3.757	0.00		6	┪
C	7	GLY	В	9	-7,950	26.136		_			Н
ŏ	✝	GLY	B	9	-6.886		4.528	0.00		16	ᅥ
N	+	LEU	В	_		25.518	4.564	0.00		8	4
	+		_	1	-8.152	27.280	-5.174	0.00		17	4
CA		LEU	₽	11	-7.105	27.900	-5.976	0.00		6	4
Č	_	LEU	<u>↓B</u>	44	7.446	27.838	-7.465	0.00	0.00	6	ᆚ
<u>c</u>		<u>LEU</u>	ĮB.	11	-7.764	26.482	-8.091	10.00	0.00	16	J
LC.	4	<u>LEU</u>	B	11	-8.238	26,644	-9.528	1 0.00	0.00	6	┚
C		<u>LEU</u>	↓B	11	-6.558	25.554	-8.027	0.00	0.00	6	7
C	_	LEU	B	1	-6.897	29.350	-5.557	0.00	0.00	6	7
0	1	LEU	В	Li	-7.841	30.024	-5.142	0.00	0.00	8	7
N	Ţ	GLY	В	1	-5.664	29.823	-5.668	0.00	0.00	7	1
CA	J	GLY	В	1	-5.349	31.207	-5.306	0.00	0.00	6	1
C	_	GLY	В	1	4.062	31.628	-6.007	0.00	0.00	6	1
0		GLY	В	î	-3.216	30,774	-6.284				1
N	-	MET	В	1				0.00	0.00	8	4
CA		MET	_		-3.931	32.914	-6.317	0.00	0.00	17	4
			₽.	1	-2,727	33.388	-6.974	0.00	0.00	16	4
CB	-	MET	В	11	-2.490	32.625	-8.282	0.00	0.00	6	1
C		MET	B	11	-2.990	33.281	9.554	0.00	0.00	6	Ĺ
SD		<u>WET</u>	В	1	-2.427	32.418	-11.033	0.00	0.00	11]
CE	11	MET	В	1	-3.853	31.394	-11.381	0.00	0.00	6	1
С	L	WET	В	1	-2.670	34.885	-7,258	0.00	0.00	6	1
0	1	Œ	В	1	-3.628	35.626	-7.402	0.00	0.00	8	ſ
N	7	EU	В	1	-1.423	35.318	-7.387	0.00	0.00	7	1
	_	EU	В	1	-1.019	36.658	-7.762			•	1
L A			В	1				0.00	0.00	6	ı
CA	T				-0.345	37.416	-6.630	0.00	0.00	6	ı
CB		EU		_		00 000					
CB C	I	EU	В	1	-1.225	37.783	-5.431	0.00	0.00	6	ł
CB C	I	EU	B B	1	-1.225 -0.386	37.931	4.173	0.00	0.00	6	
CB C C	I	ED CA TA	B B	1 1	-1.225 -0.386 -2.012						
CB C C C	I	EU EU EU	B B	1	-1.225 -0.386	37.931	4.173	0.00	0.00	6	
CB C C	I	ED CA TA	B B	1 1	-1.225 -0.386 -2.012	37.931 39.053	4.173 -5.721	0.00	0.00 0.00	6 6	

	C	Α	SE	R	E	П	1	0.573		37.00	4	-11.20	15	0.0	<u> </u>	0.00	. 7	6
	C	В	SE	R	E	П	ī	-0.01		35.96		-12.15		0.0		0.00		6
	Го	,	SE	R	TE	П	1	-0.87		36.55		-13.11		0.0			_	_
	C		SE	_	В	_	1	0.707		38.35		-11.89					_	8
	ō	_	SE		B	_	ı	-0.03		39.28				0.0		_		_6_
	N	_	PR		ĪΒ			1.592	_			-11.61	_	0.0		0.00		8
	Ĉ		PR	_	В	_	_		_	38.43	_	-12.88		0.0		0.00		7
	Č.	_			_		Ц	2.528	_	37.35		-13.28		0.0	_	0.00		6
	_	_	PR		I B	_		1.796	_	39.63		-13.66		0.0	ᅁ	0.00		6
	C	ь,	PR		↓B		_	3.008	_	39.31	7_	-14.53	15	0.0	0	0.00	_1	6
	C	_	PR		<u>↓B</u>	41	Ц	3.661	_	38.13	9	-13.90	12	0.0	0	0.00	Ī	6
	C	_	PR	<u>o</u>	<u> B</u>	ш	Ц	0.602	_	40.04	3	-14.50	9	0.0	0	0.00	ī	6
	0		PR	0	B	L		0.561		41.20	9	-14.92	4	0.0	٥	0.00	\neg	8
	N		VA	L	B	IJ		-0.355	;	39.168		-14.81		0.0	_	0.00	7	7
	C	ΑÌ	VA	L	В	\perp	Π	-1.521		39.56	ı	-15.59	_	0.0	_	0.00	_	6
	CI	в	VA		В	Ti		-1.781		38.69		-16.83		0.00	_	0.00	┪	6
	C	7	VA		В	\perp_1	┪	-0.708		38.926		-17.89		0.00	_		┪	_
	C	i	VA		В	Ti	7	-1.882		37.219			-		_	0.00	+	6
	Ğ	7	VΑ		В	Τì	┪				_	·16.47		0.00	_	0.00	4	6
		┪					+	<u>-2,799</u>		39.600		-14.76		0.00		0.00	4	6
	0	+	VA		B	+1	+	-3.883		39.725		-15.34	_	0.00	1	0.00	4	8
	N	.+	GL		B	+1	+	-2.703	_	39.502	_	<u>-13.44</u>	ᅄ	0.00	4	0.00	_	7_
	LC4	4	GL		В	+1	4	-3.904		39.542		-12.61	<u>2 </u>	0.00	Ш	0.00	\perp	6
	<u> C</u>	4	GL		В	13	4	-3.619	_	39,258	<u> 1</u>	-11.14	6	0.00	П	0.00	Т	6
	0	4	GL.		В	11	4	-2.708	┙	38,499	<u>J</u>	-10.81	7	0.00	П	0.00	Ţ	8
	N	4	<u>ASI</u>		<u>B</u>	1	1	-4.419		39.856	; [-10.26		0.00	_	0.00		7
	CA	V	ASI	1	В	1	1	-4.271		39.693	П	-8.833	T	0.00	_	0.00	_	6
	CB	<u>ı</u> I	ASI		В	Ιı	Τ	-4.557	╗	41.013		-8.113	┪	0.00	_	0.00		6
	С		ASI	4	В	Ιī	Т	-3.346	7	41.910		-7.977	7	0,00	_	0.00		6
	0.	T	AS:		В	Ιī	Т	-2,706	7	42.284		8.961		0.00		0.00		8
i	N	Т	ASI		В	Ιī	1	-3.014	7	42.291		-6.748	_		_			7
	c	T	ASI		В	li	t	5.170	┪	38.603		-8.269		0.00	_	0.00	_	
	ō	†	ASI		В	î	+	5.198	╅					0.00	_	0.00		6_
	N	+	THI		В	î	۲		+	38.386		<u>-7.058</u>		0.00	┰	0,00		Ц
ļ	CA	_	THI	_	В	î		5.984 C 024	+	<u>37.976</u>		<u>-9.104</u>		0.00	$\overline{}$	0.00		4
1	CB					_		6.834	+	36.866		-8.721		0.00		0.00	4	<u>ച</u>
ı	0		TН		B	1	_	8.337	+	<u> 37.195</u>	_	<u>-8.653</u>		0.00		0.00	4	
ł			THI		<u>B</u>	1		8.753		37,727		-9.920		0.00		0.00	4	Ц
ł	č		TH		<u>B</u>	1	_	8.673		<u> 38.174</u>		-7.548	4	0.00	Ц	0.00	<u>ئل</u>	ப
ŀ	<u>c</u>	_	THE	_	<u>B</u>	1		6.685		<u>35,733</u>	Į.	9.743	4	0.00	Ц	0.00	Ŀ	ப
ŀ	0	_	THE	_	В	1		<u>6.175</u>	1	<u> 35.946</u>	Ţ.	<u>-10.840</u>	ш	0.00	L	0.00	18	
ļ	N	7	VAL	_	В	2		7,245	1	<u>34.576</u>	Ŀ	9.417	_10	0.00	10	0.00	17	┙
ļ	CA		VAL		В	2	Ŀ	7.206	4	33.430	Ŀ	10.309	1	00.0	I	0.00	16	П
ļ	CB		VAL		В	2	Ŀ	7.775	Ŀ	32.172	Ι.	9.621	10	0.00	T	0.00	16	
L	<u>c</u>	Ľ	ZAL,	┙	В	2	١.	7.815	Ŀ	30.979	Ι,	10.564		0.00		0.00	16	
L	С	١	/AL		В	2	I٠	6.945	T	31.826		8.392		0.00		0.00	6	_
Ĺ	C	Ī	/AL	\perp	В	2	1	7.959		33.676	7	11.609		.00		00.0	6	
Γ	0	Ī	/AL	Т	В	2		7.390	_	33.528		12.694		.00		.00	18	
Г	N	T	SLU	П	В	2		9.235	_	34.032	7	11.517		.00		0.00	17	Η.
Ī	CA		LU	_	В	2	_	10.064		14.260		12.692	_	.00		.00	6	٦.
	СВ		LU	7	В	2	_	11.531	_	4 440			-				_	٦.
	C		LU		В	2			_			12.281		.00		.00	16	4
	č_				_			12.137		3.233		11.590	-	.00		.00	6	4
			LU		<u>B</u>	2	_	12.288		2.006		12.464	_	.00		.00	16	4
_	<u>0</u>		LU		B	2		12,184		2.123	_	13.703		.00		.00_	8	4
	<u> </u>	_	LU	_	B	2		12.522		0.903	Ŀ	11,919	10	.00	9	.00_	8	1
	<u>C</u>		LU	_	В	2		5.599	13	5,406	Ŀ	13.571	Lo	.00	0	.00	6	J
	<u> </u>	_	LU		В	2	Ľ	.489	13	5.218	Ŀ	14.789	0	.00	0	.00	8	⅃
	N	<u>s</u>	ER	11	<u>B</u>	2	٠.	2.214	3	6.545		13.005	lo	00	0	.00	7	7
(CA	S	ER	Ŀ	В	2	-8	3.706] 3	7.658		13.805		.00		.00	6	٦.
(CB		ER	\prod	в	2	-8	.514		8.913		12.967		00		.00	6	7
(0		ER			2		.593		8.724		11.911		00		.00	8	1
	<u> </u>		ER	-		2		.429		7.252		14.529		80	_	_		┪
	5 1		ER			2		.234		7.591						00	6	Н
_	v		HR			2		.555	_			15.698		90		00	8	4
_	A		HR	Τi		2		.319		6.509		3.854		00		00	7	┥
	B			H	_		_			6.021		4.459		00		00	6	4
			HR			2		.442		5.270		3.444		00		00	6	4
(2.1	Τ.	HR	L	3 1	2	-3	.761	13	6.220 l	-1	2.614	ιО.	oo I	n	OO I	l Q	1

	1	T.	- 1 -			, 			
C	THR	B	12	1-3.400	34.381	-14.10		_	<u> 6</u>
0	THR	B	2	-5.685	35.070				6_
N	TRP	_		-5.100	35.126	-16.631			8_
CA	TRP	I B	2	-7.069	34.166	-15.337 -16.324			- 7
CB		В	12	-8.124	32.257	-15.721	0.00	9.00	16
C	TRP	В	12	-8.554	31.131	-16.610	0.00		16
Č	TRP	В	2	-7.715	30.225	-17.335	0.00		6
ČΕ		В	2	-8.556	29.338	18.035			6
CE	•	В	2	-6.330	30.079	-17.462	0.00		6
C	TRP	В	2	-9.839	30.763	16.892	0.00		6
N	TRP	В	2	-9.849	29.686	-17.746	0.00		7
CZ	TRP	В	2	-8.062	28.322	-18.849	0.00	0.00	16
CZ	TRP	В	2	-5.840	29.069	-18.269	0.00	0.00	16
С	TRP	В	2	-6.704	28.201	1.18.952	0.00	0.00	6
C	TRP	B	2	-7.583	33.858	-17.592	0.00	0.00	6
0	TRP	В	2	-7.160	33.508	-18.694	0.00	0.00	8
N	LYS	В	2	-8.470	34.834	-17.456	0.00	0.00	7
CA	LYS	В	2	-9.042	35.564	-18.576	0.00	0.00	16
CB	LYS	В	2	-10.109	36.555	-18.097	0.00	0.00	6
С	LYS	<u> B</u>	2	-11.283	35.913	-17.377	0.00	0.00	6
C	LYS	B	2	-12.370	36.937	-17.083	0.00	0.00	6
CE	LYS	B	2	-13.606	36.274	·16.497	0.00	0.00	6
NZ	LYS	В	2	-14.851	36,738	-17,170	0.00	0,00	17
Š	LYS	B	12	-8.001	36,320	-19.393	0.00	0.00	6
<u> </u>	LYS	B	2	-8.069	36.331	-20.626	0.00	0,00	8
N	ALA	 B	2	-7.024	36.927	-18.727	0.00	0.00	17
CA	ALA	B	2	-5.956	37.637	-19.422	0.00	0.00	6
CB	ALA	B	2	-5.089	38,401	-18,433	0.00	0.00	6
6	ALA	B	2	-5.117	36.686	-20.267	0.00	0.00	16
N	LEU	В	2	4.735 4.852	37.026 35.485	-21.390 -19.765	0.00	0.00	8
CA	LEU	В	2	4.074	34.491	-19.765	0.00	0.00	6
CB	LEU	В	2	-3.722	33.310	-19.585	0.00	0.00	6
C	LEU	В	2	-2.629	33.472	-18.534	0.00	0.00	6
C	LEU	В	2	-2.164	32.095	-18.065	0.00	0.00	6
С	LEU	В	2	-1.441	34.278	-19.038	0.00	0.00	6
C	LEU	В	2	-4.782	33.983	-21.736	0.00	0.00	6
0	LEU	В	2	-4.157	33,830	-22.788	0.00	0.00	8
N	LEU	В	2	-6.090	33.756	-21.655	0.00	0.00	7
CA	LEU	В	2	-6.862	33.296	-22.804	0.00	0.00	6
CB	LEU	В	2	-8.251	32.826	-22.371	0.00	0,00	6
<u> C</u> _	LEU	В	2	-8.328	31.592	-21.467	0.00	0.00	6
<u> </u>	LEU	<u>.B</u> .	2	-9.775	31.260	-21.133	0.00	0.00	16
<u>C</u>	LEU	В	2	-7.647	30.388	22.099	0.00	0.00	6
č	LEU	B	2	-6.965	34.357	·23.891	0.00	0.00	6
O N	LEU	В	2	-6.998	34.023	-25.078	0.00	0.00	8
CA	ALA ALA	B B	2	-6.884 -6.886	35.636	·23.540	0.00	0.00	7
CB	ALA	B	2	-7.539	36,733 37,965	-24.490	0.00	0.00	6
C	ALA	В	2	-7.539 -5.491	37.096	-23.870 -24.980	0.00	0.00	6
ŏ	ALA	В	2	-5.332	38.055	25.741	0.00	0.00	8
N	GLY	B	3	4.463	36.382	24.544	0.00	0.00	7
CA	GLY	В	3	-3.096	36,619	-24.953	0.00	0.00	6
C	GLY	В	3	-2.487	37.912	24.446	0.00	0.00	6
ō	GLY	B	3	-1.571	38.445	25.078	0.00	0.00	8
N	GLN	B	3	-2.918	38.388	23.283	0.00	0.00	7
CA	GLN	В	3	-2.359	39.598	-22.699	0.00	0.00	6
СВ	GLN	В	3	-3.312	40.181	-21.654	0.00	0.00	6
C	GLN	В	3	4.566	40.798	-22.243	0.00	0.00	6
C	GLN	В	3	-5.525	41.358	-21.215	0.00	0.00	6
	GLN	В	3	-5.143	41.723	-20.103	0.00	0.00	8
N	GLN	В	3	-6.801		-21.588	0.00	0.00	7
C	GLN	В	3	-0.990		-22.078	0.00	0.00	6

0	GLN	i I E	3 3	-0.765	38.310	-21.429	0.00	0.00	8
N	SER	E	3 3	-0.062	40.251	-22.30			7
Cá		_		1.278	40.169				6
CE				2.294	40.807				
ō	SER		_	3.597	40.831			_	- 6
Ċ	SER					-22.140			8
ŏ	SER			1.274	40.874	-20.386			6
N			_	0.498	41.811	-20.191			. 8
_	CLY			2.110	40,424	-19.459			_ 7
CA				2.170	41.044	-18.135			<u> 6</u>
٦	GLY			3,536	41.687	-17.921			16.
0	GLY	_	_	3.897	42.130	-16.835			8
Ŋ	ILE	_ [₿		4.303	41,749	-19.000	0.00	0.00	17
CA	ILE	B		5.671	42,238	1-18.997	0.00	0.00	6
CB		<u> B</u>	3	6.473	41.482	-20.089	0.00	0.00	16
C	ILE	↓ B		7.954	41,783	-19.950	0.00	0.00	16
C	ILE	B	3	6.125	40.003	-19.990	0.00	0.00	6
LC_	ILE	<u> B</u>	3	7.148	38.944	-20.253	0.00	0.00	6
C	ILE	<u> B</u>	3	5.778	43.741	-19.184			6
0	ILE	В	3	5.345	44.318	-20.180	0.00		18
N	SER	В	3	6.393	44.396	-18.204			7
ÇA	SER	B	3	6.552	45.837	-18.154	_		6
CB	SER	Тв	3	5.698	46.401	-17.008			6
Г	SER	B	3	4.422	46.810	-17.454	0.00		8
C	SER	B	3	7.998	46.253	-17.896			6
0	SER	В	3	8.837	45.419	-17.558	0.00		8
N	LEU	В	3	8.270	47.548	-18.011	0.00		7
CA	LEU	B	3	9.597	48.088	-17.731	0.00	0.00	6
СВ	LEU	В	3	9.788	49.454	-18.383	0.00	0.00	6
C	LEU	B	3	10.093	49.512	-19.878	0.00	0.00	6
C	LEU	В	3	10.049	50.952	-20.370	0.00	0.00	6
c	LEU	В	3	11.445	48.888	-20.193	0.00	0.00	6
Ĉ.	LEU	В	3	9.778	48.224	-16.219	0.00	0.00	6
ō	LEU	B	3	8.828	48.607	-15.534	0.00	0.00	
N	ILE	В	3	10.960	47.910	-15.704	0.00		8
CA	ILE	B	3	11.197	48.024	-14.264	0.00	0,00	
CB	ILE	B	3	12,471	47.285	-13.832		0.00	6
c	ILE	В	3	12.855	47.610		0.00	0.00	16
C	ILE	В	3	12.293	45,770	-12,395 -13,991	0.00	0.00	6
c	ILE	В	3	13.596	45.010	-14.122	_		6
c	ILE	В	3	11.289	49.497		0.00	0.00	6
ŏ	ILE	В	3	11.972		-13.874	0.00	0.00	6
N	ASP	В	3		50.271	-14.546	0.00	0.00	8
CA	ASP	B	3	10.643	49.871	-12,772	0.00	0.00	7
CB	ASP	B	_		51.259	-12.331	0.00	0.00	6
C	ASP	В	3	9.336	51,943	-12,629	0.00	0.00	6
0	ASP	В	3	8.143	51.205	-12.064	0.00	0.00	6
Ö	ASP	_	3	7.473	51.744	-11.160	0.00	0.00	8
	ASP	용		7.855	50.079	-12.525	0.00	0.00	18
c o	ASP	B	3	11.031	51.429	-10.863	0.00	0.00	6
		_	3	11.153	52.575	-10.414	0.00	0.00	8
N CA	HIS	В	3	11.266	50.348	-10,127	0.00	0.00	7
CA	HIS	В	3	11.539	50.473	-8.69 6	0.00	0.00	6
CB	HIS	В	3	10.808	49.400	-7.893	0.00	0.00	6
<u>c</u>	HIS	В	3	11.110	48.005	-8.342	0.00	0.00	6
<u>C</u>	HIS	В	3	10.636	47.274	-9.377	0.00	0.00	6
N .	HIS	В	3	12.022	47.210	-7.684	0.00	0.00	7
CE	HIS	В	3	12.091	46.042	-8.295	0.00	0.00	6
N	HIS	В	3	11.264	46.052	-9.324	0.00	0.00	7
c	HIS	В	3	13.020	50.517	-8.359	0.00	0.00	6
0	HIS	В	3	13.389	50.654	-7.190	0.00	0.00	8
N.	PHE	В	4	13.883	50.454	-9.362	0.00	0.00	7
CA	PHE	В	4	15.318	50.638	-9.192	0.00	0.00	6
CB	PHE	В	4	16.061	49.447	-8.633	0.00	0.00	6
C I		В	4	16.131	48,199	-9.458	0.00	0.00	6
C	PHE	R	A	15 223	47 174	0.252	0.00	0.00	-

Ç	PHE	B	4	17.120	48.028	-10.416	0.00	0.00	6
CE	PHE	В	14	15.281	46.015	-10.000		_	6
CE	PHE	В	14	17.184	46.867	-11.163			6
CZ	PHE	B	14	16.264	45.859	-10.957			
C		_	14	10.207			0.00		- 6
	PHE	₽	-	15.893	51.121	-10.527	0.00		- 6
0	PHE	В	14	15.265	50.943	-11.571	0.00	0.00	8
N.	ASP	B	4	17.003	51.846	1-10.472	10.00	0.00	17
LCA	ASP	В	14	17.611	52.372	-11.690	0.00	0.00	6
СВ	ASP	В	4	18.687	53.406	-11.349	0.00	0.00	6
C	ASP	В	4	18.923	54.376	12.491	0.00	0.00	
lŏ	ASP	B	_						16
		_	14	17.932	54.804	-13.121	0.00	0.00	- 8
٩	ASP	<u> </u>	14	20.095	54.711	-12.759	0.00	0.00	8_
C	ASP	<u>↓B</u>	14	18.201	51.255	-12.541	Q.00	0.00	6
0	ASP	В	14	19.158	50.593	-12.140	0.00	0.00	18
l N	THR	В	4	17.644	51.053	-13.732	0.00	0.00	7
ÇA	THR	В	4	18.114	50.015	-14.639	0.00	0.00	6
CB	THR	B	4						
			_	16.921	49.251	-15.254	0.00	0.00	16
0	THR	В	4	16.088	50.174	-15.962	0.00	0.00	- 8
C	THR	В	4	16,100	48.566	-14.175	0.00	0.00	6
С	THR	В	4	19.000	50.539	-15,760	0.00	0.00	6
10	THR	B	4	19.202	49.864	-16,774	0.00	0.00	8
N	SER	В	4	19.645	51.679	-15.568	0.00	0.00	7
CA	SER	В	4	20.508	52,311	16.548	0.00	0.00	6
CB	SER	В	4						_
		_	_	21.084	53.616	15.972	0.00	0.00	16
10	SER	B.	14	20.143	54.668	16.102	0.00	0.00	18
C_	SER	<u> B</u>	14	21.666	51.451	17.029	0.00	0.00	6
0	SER	<u>B</u>	4	21.952	51.395	-18.226	0.00	0.00	18
N_	ALA	В	4	22.351	50.775	-16,116	0.00	0.00	17
CA	ALA	В	4	23,483	49.923	-16.440	0.00	0.00	6
CB	ALA	В	4	24,439	49,900	-15.247	0.00	0.00	6
C	ALA	В	4	23.094	48.490	16.774	0.00		6
ŏ			_					0.00	_
	ALA	B	4	23.937	47.679	17.164	0.00	0.00	18
N.	TYR	B	4	21.823	48.159	16,611	0.00	0.00	17.
CA	TYR	B	4	21.336	46.806	-16.810	0.00	0.00	16
CB	TYR	В	4	20.088	46.602	-15.938	0.00	0.00	6
LC :	TYR	В	4	20.413	46.522	-14.460	0.00	0.00	6
С	TYR	B	4	20,745	47.655	-13.731	0.00	0.00	6
CE	TYR	В	4	21.048	47.578	-12.383	0.00	0.00	6
C	TYR	В	4	20.391					_
					45.303	13.795	0.00	0.00	6
CE	TYR	В	4	20.690	45.216	·12.449	0.00	0.00	6
CZ	TYR	B	4	21.014	46.355	-11.747	0.00	0.00	6
0	TYR	LB.	4	21.313	46.273	-10.407	0.00	0.00	8
LC	TYR	В	4	21,059	46.459	-18.261	0.00	0.00	6
0	TYR	В	4	20.554	47.253	-19.049	0.00	0.00	8
N	ALA	В	4	21.370	45.209	-18.607	0.00	0.00	7
CA	ALA	В	4	21,142	44.684	19.946	0.00	0.00	6
CB	ALA	В	4	22.005			_		_
					43,456	-20.186	0.00	0.00	6
2	ALA	В	4	19.666	44.352	-20.146	0.00	0.00	6
0	ALA	В	4	19.154	44.407	-21.263	0.00	0.00	8
K	THR	В	4	18.993	43,971	-19.067	0.00	0.00	7
CA	THR	В	4	17.560	43.695	-19.106	0.00	0.00	6
СВ	THR	В	4	17.216	42.255	·18.717	0.00	0.00	6
ō	THR	В	4	17.923	41.358	-19.587	0.00	0.00	8
Č.			_						
	THR	<u>B</u>	4	15.719	42.013	-18.850	0.00	0.00	6
C	THR	В	4	16.868	44.707	-18.197	0.00	0.00	6
	THR	В	4	17.208	44.856	-17.024	0.00	0.00	8
N	LYS	В	4	15.919	45.441	-18.768	0.00	0.00	7
CA	LYS	В	4	15.215	46.491	-18.050	0.00	0.00	6
СВ	LYS	В	4	15.389	47.815	-18.819	0.00	0.00	6
c	LYS	В	4	16.831	48.251	-19.005	0.00	0.00	6
_			_						_
드	LYS	В	4	17.050	48.954	-20.333	0.00	0.00	6
CE	LYS.	В	<u>ا</u> گ	18.371	49,707	-20.339	0.00	0.00	6
NZ	LYS	В	4	19.484	48.873	-20.865	0.00	0.00	7
LC_I	LYS	В	4	13.734	46.220	-17.361	0,00	0.00	6
			_						

0	LYS	B	4	13.002	47,106	-17.414	0.00	0.00	18
N	PHE	В		13.301	45.009				17
Cá		T B		11.887	10.000				
		_	_						- 6
CE				11.267	44.557			_	6
C	PHE	<u> </u>		11.965	43.566		0.00	0.00	6
C	PHE	<u> B</u>	4	11,550	1 42.247	20.404	10.00	0.00	6
C	PHE	<u> B</u>	4	13.041	43.957	-21.135	0.00	0.00	6
CE	PHE	В	4	12.192	41.332				6
CE		В	4	13.689	43.046				6
CZ		B	_	13.260	41.735	-21.996	0.00		
C	PHE	ĺВ	_	11.666					6
_	-		_		43.382	-17.292			<u> </u>
0	PHE	↓ <u>B</u>	_	12.576	42.577		0.00		8_
N	ALA	<u> </u>	15	10.424	43.181	-16.864	0.00	0.00	17
CA		ļВ	5	10.032	41.986	-16.135	0.00	0.00	16
CB	LALA	<u>B</u>	15	10.666	41.977	-14.749	0.00	0.00	6
LC	ALA	B	5	8.513	41.888	-16.010	0.00	0.00	6
0	ALA	В	5	7.772	42.820	-16.314	0.00		8
N	GLY	В	5	8.060	40.724	-15.560	0.00		7
CA	GLY	В	5	6.631	40.512	-15.301	0.00		_
C	GLY	В	5				_	0.00	6
_			_	6.446	40.886	-13.820	0.00	0.00	16
9	GLY	B	5	6.858	40.138	-12.933	0.00	0.00	8
N	LEU	ĮB	5	5.924	42.082	-13.579	0.00	0.00	17
CA	LEU	<u> </u>	5	5.763	42,560	-12.212	0.00	0.00	6
CB		В	15	6.262	44.005	-12.103	0.00	0.00	6
C_	LEU	B	15	7.754	44,212	-12.389	0.00	0.00	6
C	LEU	В	5	8.010	45.627	-12.886	0.00	0.00	6
C	LEU	В	5	8.586	43.905	-11.153	0.00	0.00	6
C	LEU	В	5	4.322	42.452	-11.736	0.00	0.00	6
0	LEU	В	5	3.391	42.541	-12.533	0.00	0.00	8
N	VAL	В	5	4.155	42.220			_	7
	VAL	В				-10.437	0.00	0.00	17-1
CA CB	VAL	В	5	2.802	42.166	-9.866	0.00	0.00	16
			5	2.748	41.398	-8.547	0.00	0.00	6
도_	VAL	Į <u>B</u>	5	1.428	41,596	-7.817	0.00	0.00	16
<u></u>	VAL	Į₿.	5	2.966	39.909	-8.810	0.00	0.00	16
C_	VAL	B	5	2.356	43,620	-9.731	0.00	0,00	16
0	LVAL.	B	15	3.072	44.437	-9.153	0.00	0.00	8
N	LYS	<u>LB</u>	15	1.232	43.952	-10.349	0.00	0.00	7
CA	LYS	B	5	0.753	45,325	-10.391	0.00	0.00	6
CB	LYS	В	5	0.339	45.647	-11.840	0,00	0.00	6
С	LYS	В	5	1.523	45.696	-12.794	0.00	0.00	6
С	LYS	В	5	1.113	45.408	-14.228	0.00	0.00	6
CE	LYS	В	5	1.623	44.063	-14.705	0.00	0,00	6
NZ	LYS	В	5	3.062	44.089	-14.705	_		7
C	LYS				7		0.00	0.00	_
		용	5	-0.391	45.635	-9.444	0.00	0.00	6
0	LYS	<u>B</u> .	5	-1.385	44.920	-9.337	0.00	0.00	181
N.	ASP	B	5	-0.285	46.789	-8.783	0.00	0.00	17
CA	ASP	В	5	-1.310	47.298	-7.881	0.00	0.00	6
CB	ASP	В	5	-2.588	47.593	-8.678	0.00	0.00	6
С	ASP	В	5	-2.359	48,623	-9.771	0.00	0.00	6
0	ASP	В	5	-1.815	49.702	-9.459	0.00	0.00	8
0	ASP	В	5	-2.682	48.318	-10.940	0.00	0.00	8
Ċ.	ASP	В	5	-1.600	46.349	-6.727	0.00	0.00	6
ŏ	ASP	В	5	-2.750	46.016	-6.428	0.00	0.00	8
N	PHE	В	5					_	
				-0.549	45.928	-6.037	0.00	0.00	17
CA	PHE	B	5	-0.658	44.970	-4,945	0.00	0.00	6
CB	PHE	B	5	0.677	44.225	-4.825	0.00	0.00	6
C	PHE	В	5_	0.791	43.249	-3.696	0.00	0.00	6
C	PHE	В	5_	0.037	42.088	-3.672	0.00	0.00	6
C	PHE	В	5	1.674	43.489	-2.653	0.00	0.00	6
CE	PHE	В	5	0.151	41.190	-2.629	0.00	0.00	6
CE	PHE	В	5	1.792	42.594	-1.607	0.00	0.00	6
CZ	PHE	В	5	1.029	41.443	-1.595	0.00	0.00	6
C	PHE	В	5	-1.074	45.599	-3.627			_
	PHE	R	5	-0.014	46 521	-3.021 -3.115	0.00	0.00	6
· ·	LILE								

_	-,	-,-							
N	ASN	B	1 5	-2.151	45.07	1 -3.051	0.00	0.00	17
C	A ASN	B	<u> 5</u>	-2.663	45,537	2 -1.769	0.00	0.00	6
CI	3 ASN	В	15	-3.948	46.342		0.00		6
C	ASN	B	5	4.421	46.97		0.00		6
0	ASN				46.85		0.00		
N	ASN				47.660	_			8
C		_	_				0.00		7
_	ASN	B		-2.914	44.343		0.00		- 6
0	ASN		_	-3.604	43.391	-1.203	0.00	0.00	8
N	CYS	<u> </u>	15	-2.309	44.399	0.338	0.00	0.00	7
CA	LI CYS	B	_ 5	-2.467	43.334	1.322	0.00	0.00	6
CE	CYS	В	5	-1.236	42.431		0.00		6
SC		İΒ	5	0.252	43.226		0.00		1
C	CYS	В	_	-2.728					
ŏ			5		43.929		0.00		- 16
	CYS	↓B		-2.729	43,232		0.00	_	8
N	GLU		15	-3.065	45.214		0.00		17
CA		B	15	-3.394	45.936	3.943	0.00	0.00	16
CB		<u> B</u>	5	-3.775	47.378	3.604	0.00	0.00	6
Lc	GLU	В	5	-3.621	48.366		0.00		6
C	GLU	В	5	-2.414	49.271	4.612	0.00	0.00	6
ō	GLU	B	5	-2.406	50.339		0.00	_	8
ŏ	GLU	В	5				_	_	_
_		_		1.469	48.932	3.872	0.00	0.00	18
ļ <u>c</u>	GLU	B	15	-4.520	45.260	4.717	0.00	0.00	- 6
0	CLU	<u> </u>	15	-4.445	45.096	5.936	0.00	0.00	8
N.	ASP	<u> </u>	16	-5.547	44.799	4.013	0.00	0.00	17
CA	ASP	B	6	-6.654	44.067	4.601	0.00	0.00	6
CB	ASP	В	6	-7.786	43.855	3.599	0.00	0.00	6
C	ASP	В	6	-7.406	43,958	2.141	0.00	0.00	6
0	ASP	В	6	-7.476	42.929	1.431	0.00	0.00	18
ō	ASP	В	6	-7.060	45.066				
C	ASP		_			1.677	0.00	0.00	8
		B	6	-6.217	42.726	5,186	0.00	0.00	6
0	LASP	Į₿.	6	-6.727	42,320	6.232	0.00	0.00	8
N	ILE	<u> </u>	16	-5.292	42.034	4.531	0.00	0.00	17
CA	ILE	B	16	-4.814	40,742	4.995	0.00	0.00	16
CB	ILE	B	6	-4.325	39,863	3.824	0.00	0.00	6
C	ILE	В	6	4.200	38.412	4.270	0.00	0.00	6
С	ILE	В	6	-5.229	39.984	2,600	0.00	0.00	6
C	ILE	В	6	-6.659	39,533	2,774	0.00		
Č	ILE	В	6					0.00	6
		_	_	-3,692	40.849	6.020	0.00	0.00	6
0	ILE	B	6	-3.679	40.118	7.013	0.00	0.00	8
N	ILE	B	6	-2.663	41.635	5.720	0.00	0.00	7
CA	ILE	B	6	-1.509	41.805	6.587	0.00	0.00	6
CB	ILE	<u>B</u>	6	-0.185	41.329	5.963	0.00	0.00	6
C.	ILE	В	6	0.946	41,398	6.985	0.00	0.00	6
C	ILE	В	6	-0.271	39.907	5.404	0.00	0.00	6
C	ILE	В	6	0.146	39.804	3.952	0.00	0.00	
C	ILE	В	6				_		16
		_	_	-1.340	43.279	6.962	0.00	0.00	6
<u> </u>	ILE	B	6	-1.307	44.147	6.089	0.00	0.00	8
N	SER	В	6	-1.176	43.542	8.254	0.00	0.00	17
CA	SER	В	6	-1.027	44.913	8.732	0.00	0.00	6
CB	SER	В	6	-1.109	44.966	10.258	0.00	0,00	6
0	SER	В	6	-0.358	43.920	10.849	0.00	0.00	8
С	SER	В	6	0.284	45.527	8.261	0.00	0.00	6
ŏ	SER	В	6	1.217					
		_			44.815	7.890	0.00	0.00	8
N.	ARG	B	6	0.375	46.853	8.340	0.00	0.00	7
CA	ARG	В	6	1.598	47.562	7.975	0.00	0.00	6
CB	ARG	В	6	1.389	49.065	7.862	0.00	0.00	6
C	ARG	В	6	0.040	49.498	7.312	0.00	0.00	6
C	ARG	В	6	-0.702	50.361	8.322	0.00	0,00	6
Z	ARG	В	6	-2.149	50.225				7
						8.210	0.00	0.00	
CZ	ARG	В	٤	-3.011	51.232	8.289	0.00	0.00	6
N	ARG	В	6	-2.585	52.474	8.481	0.00	0.00	7
N	ARG	В	6	-4.313	51.003	3.173	0.00	0.00	7
C	ARG	В	6	2.688	47.252	9.003	0.00	0.00	6
0	ARG	В	6	3.867	47.164	8.665	0.00	0.00	8
		_	_						

N	LYS	TE	1 6	2,256	47.070	10.259	0.00	0.00	17
CA		ĪΕ		3.206	46.697		0.00		_
CE		E							16
C	LYS	TE			10.000		0.00		16.
c		_	_	1.922	47.844		0.00		6
_	LYS	<u> </u>		0.962	47.542		0.00	0.00	6
CE		E		-0.211	48.508	14.405	0.00	0.00	6
N2	LYS	B	6	-1.501	47.832	14.094	0.00	0.00	7
C	LYS	_ I B	6	3.836	45.348		0.00		6
0	LYS	B	6	5.053	45.206		0.00		8
N	GLU		_	2.985	44.370		0.00		7
CA			_	3.403	43.026		_		_
CE		_	_	_		_	0.00		6
		_	_	2.191	42.084		0.00		16
C	GLU			1.842	41.634	11.759	0.00	0.00	6
C	CLU			2.805	40.594	12.296	0.00	0.00	6
0	GLU		16	3.270	40.746	13.444	10.00	0.00	8
<u>o</u>	GLU	<u> B</u>	16	3.100	39.622	11.571	0.00	0.00	8
LC.	GLU	B	6	4.103	42.913	8.961	0.00	0.00	6
0	GLU	В	6	4.935	42.026	8.749	0.00		8
N	GLN		6	3.833					
CĀ	GLN		_		43.819	8.034	0.00	0.00	17
_			16	4.432	43.873	6.715	0.00	0.00	6
CB			16	3.810	45.047	5.948	0.00	0.00	6
Ç	GLN	₽	6	3.455	44.788	4.497	0.00	0.00	6
C	GLN	B	6	2.649	45.939	3.918	0.00	0.00	6
0	GLN	B	16	3.186	47.022	3.682	0.00	0.00	18
N	I GLN	B	6	1.359	45,711	3.700	0.00	0.00	7
С	I GLN	В	6	5.942	44.057	6.731	0.00	0.00	6
0	GLN	В	6	6.651	43,615	5.825	0.00	0.00	8
N	ARG	В	6	6.479	44.703	7.756	0.00		
CA	ARG	В	6				_	0.00	17
				7.885	44.986	7.939	0.00	0.00	16
CB		₽	16	8.036	46,018	9.074	0.00	0.00	16
Č	ARG	 ₽	16	9.323	46.817	9.005	0.00	0.00	6
C_	ARG	↓B	16	10.089	46.770	10.317	0.00	0.00	16
N	ARG	Į₿.	16	11.527	46.897	10.120	0.00	0.00	7
ÇZ	LARG	<u> B</u>	6	12,168	47.990	9.730	0.00	0.00	6
N	ARG	B	16	11.506	49.112	9.476	0.00	0.00	7
N.	ARG	B	6	13.490	47.967	9.589	0.00	0.00	7
c	ARG	В	6	8,747	43.779	8.272	0.00	0.00	6
0	ARG	В	6	9.976	43.834	8.163	0.00	0.00	8
N_	LYS	В	6	8.138	42.682	8.698	0.00	0.00	7
CA	LYS	В	6	8.845					
CB	LYS		_		41.466	9.047	0.00	0.00	6
		B	6	8.136	40.762	10.211	0.00	0.00	6
<u>c</u> _	LYS	ļΒ	6	7.765	41.649	11.385	0.00	0.00	6
<u>c</u>	1111	<u> B</u>	6	7.064	40.835	12.467	0.00	0.00	6
CE	LYS	B	6	6.806	41.674	13,707	0.00	0.00	6
NZ	LYS	B	6	5.642	41.179	14.491	0.00	0.00	7
C.	LYS	В	6	8.927	40.481	7.885	0.00	0.00	6
0	LYS	В	6	9.369	39.348	8.094	0.00	0.00	8
N	MET	В	7	8.488	40.866	6.690	0.00	0.00	7
CA	MET	В	7	8.447	39,924				
						5.584	0.00	0.00	6
ČB.	MET	B	7	7.059	39.264	5.527	0.00	0.00	6
<u>c</u>	MET	В	7	5.892	40.186	5.822	0.00	0.00	6
SD	MET	B	7	4.290	39.377	5.704	0.00	0.00	ш
CE	MET	В	7	4.070	38,756	7.367	0.00	0.00	6
<u>c</u>	MET	В	7	8.777	40.497	4.215	0.00	0,00	6
0	MET	В	7	8.267	41.528	3.787	0.00	0.00	8
N	ASP	В	7	9.641	39.772	3.503	0.00	0.00	7
CA	ASP	В	7	10.018	40.153	2.143	0.00		_
	ASP	_	7					0.00	6
CB		В		11.102	39.217	1.616	0.00	0.00	6
<u>ç</u>	ASP	В	7	11.626	39.596	0.246	0.00	0.00	6
0.	ASP	В	7	11.084	39.090	-0.762	0.00	0.00	8
ᅅ	ASP	В	7_	12.566	40.415	0.170	0,00	0.00	8
c l	ASP	В	7	8.766	40.077	1.273	0.00	0.00	6
0	ASP	В	7	7.838	39.332	1.603	0.00	0.00	8
N		В	7	8.768	40.721			0.00	7

				·				_	~ /
<u>C</u>				7 7.671	40.673	3 -0.831	0.00	0.00	16
<u>C</u>			_	7 8.021	41.490		0.00	0.00	
Š	ALA		_	7 7.259	39,269		0.00	0.00	6
ON	PHI			7 6.061 7 8.176	39.056	_	0.00		8
C		_	-	7 8.176 7 7.811	38.313		0.00		7
Ci		_	3		36.950		0.00		_ 6
C	PHE		3		36.071		0.00		- 6
Ĉ	PHE		3		33.886		0.00		- 6
Č	PHE						0.00		6
CI					33.100		0.00		_ 6
CI	PHE		3 7				0.00		6
C2	PHE	:] [1 7	10.580			0.00		16
C	PHE		3 7	6.893	36.327		0.00		6
0	PHE				35.641	-1.064	0.00	0.00	8
N	ILE	45			36.563		0.00	0.00	7
CA		<u> </u>	_		36.067		0.00	0,00	6
CE		ᆤ			36,219		0.00	0.00	6
Š	ILE	<u> </u>			35.961	4.164	0.00	0.00	- 6
<u> </u>	ILE	 B		8.162	35.254	3.121	0.00	0.00	6
C	ILE	B	\rightarrow	9.131	35,593	4.232	0.00	0.00	6
ŏ	ILE	В		4.949 3.917	36,764	1.611	0.00	0.00	16
N	GLN			4.940	36.114 38.071	1.777	0.00	0.00	8
CA				3,695	38.826	1.257	0,00	0.00	6
CB				3.976	40.311	1.047	0.00	0.00	6
C	GLN			4,678	40.988	2.211	0.00	0.00	6
C	GLN		7	4.908	42.469	1.984	0.00	0.00	6
0	GLN		7	4.269	43.091	1.131	0.00	0.00	8
N	GLN	В	7	5.823	43.047	2,755	0.00	0.00	7
C	GLN	<u> </u>	7	2.836	38.275	0.122	0.00	0.00	6
0	GLN	<u> </u>	7	1.645	38.009	0.314	0.00	0.00	8
N	TYR	<u> </u>	17	3,435	38.020	-1.038	0.00	0.00	17
CA	TYR	<u> </u>	17	2.730	37.400	2.151	0.00	0.00	- 6
CB		₽	17	3.639	37.244	-3,365	0.00	0.00	6
C	TYR	B	17	4.073	38.496	4.083	0.00	0.00	6
CE	TYR	B	7	4.947 5.370	38,395	-5.163	0.00	0.00	6
C	TYR	B	7	3.645	39.516 39.764	-5.853	0.00	0.00	6
CE	TYR	B	7	4.069	40.894	-3.717 -4.390	0.00	0.00	6
CZ	TYR	В	7	4.932	40.761	-5.457	0.00	0.00	6
0	TYR	В	7	5.355	41.879	-6.133	0.00	0.00	8
C	TYR	В	7	2.186	36,024	-1.768	0.00	0.00	6
0_	TYR	B	7	1.028	35.703	-2.037	0.00	0.00	8
N.	GLY	B	17	3.017	35.211	-1.124	0.00	0.00	7
CA.	GLY	В	17	2.646	33.879	-0.696	0.00	0.00	6
<u>c</u>	GLY	B	7	1.432	33.837	0.218	0.00	0,00	6
<u> </u>	GLY	В	7	0.559	32.988	0.034	0.00	0.00	8
N.	ILE	B	7	1.382	34.710	1.219	0.00	0.00	7
CA CB	ILE	B	7	0.258	34.760	2.144	0.00	0,00	6
C	ILE	B	7	0.526	35.722	3.316	0.00	0.00	6
č	ILE	В	7	1 726	35.837	4.222	0,00	0.00	6
č	ILE	В	7	1.736 2.252	35.233 36.206	4.117 5.152	0.00	0.00	6
C	ILE	В	7	-1.035	35.134	1.430	0.00	0.00	6
ŏ	ILE	В	7	-2.020	34.395	1.504	0.00	0.00	8
N	VAL	В	7	-1.024	36.238	0.691	0.00	0.00	7
CA	VAL	В	7	-2,202	36.692	-0.045	0.00	0.00	6
СВ	VAL	В	7	-1.899	37.946	-0.881	0.00	0.00	6
C	VAL	В	7	-3.022	38.280	1.851		0.00	6
C	VAL	ш	7	-1.647	39.133	0.045		0.00	6
C	VAL	В	7	-2.773	35,579	-0.909		0.00	6
0	VAL,	В	7	-3.954	35.247	-0.786		0.00	8
N	ALA .	В	8	-1.946	34.939	-1.731	0.00	0.00	7

	A	AL	V I	вΤ	ŝ	-2.383	33.82	2 -2	.558	[0.0]	0.00	Je	=
ГС	В	AL	VT.	ΒĪ	8	1-1.272			.500	_	0.00	16	
C		AL			8	-2.843			.711	0.0		Ī	
O		AL		_	8	1-3.746		$\overline{}$.112	0.00			
Ň		GL			8	2.218						18	
Ċ		GLY		_	8	-2.604			.555	0.00		+7	_
C	_	GLY		_	3		31.38		370	0.0		- 6	
			_			-3.981	31.65		965	0.00		6	_
10		CL	_	_	3	-4.833	30.76		014	0.00		8	
N		VAI	_		3_	-4,230	32.89		<u>357</u>	0.00	0.00	_ 7	_
ļÇ		VAI		_	3_	-5.528	33.288		897	0.00	0.00	6	<u>.</u>
C	В	VAI			<u>3</u>	-5.532	34.736	3 2.	405	0.00	0.00	6	;
C		VAL	. 11	<u>3 1</u>	3_	-6.925	35.17	7 2.	836	0.00	0.00	6	_
C	_	VAL	ப	3 18	3	-4.556	34.880	3.	570	. 10.00	0.00	6	
C	_	VAL	ىك	3 [3	-6.620	33.064		859	0.00		6	
0		VAL		3 8	3	-7.659	32.482		179	0.00		8	
N		GLN	ΙŢ	3 [8	3	-6.364	33.415		397	0.00		17	
C	A	GLN		_	_	-7.290	33.149	_	485	0.00		6	
C	_	GLN	_			-6.721	33.632		822	0.00			
C	٦	GLN				-6.689	35.138		007			16	
Č	┪	GLN				-6.219				0.00		6	
ŏ	┪	GLN					35.543	_	389	0.00		- 6	
N	┪			_		-6.176	34.726		309	0.00		8	4
l'c	+	GLN				5.860	36.811		554	0.00		17	_
	+	GLN				-7.631	31.667	_	<u>602</u>	0.00	_	6	4
16	+	GLN		_	_	-8.802	31.315	_	<u>758</u>	10.00		8	┙
И	.+	ALA	18	_		-6.629	30.793		<u>539</u>	10.00		7	┙
l č		مبم	15	_		-6.857	29.358	_	<u>660</u>	0.00		16	┙
CI	4	جنب	+3			-5.541	28.617	+-1-	828	0.00	0.00	6	┙
Ĕ	+	ΑĻΑ	12			-7.647	28,802		484	10.00	0.00	16	┙
ß	+	<u>ALA</u>	<u> </u>	_	_	-8.519	27.949		673	0.00	0.00	8	┙
N	+	MET		_	_	-7.360	29.274	0.7		0.00	0.00	7	7
CA		MET	<u>∦₿</u>	_	4	-8.113	28.856	1.9		0.00	0.00	6	4
CE	4	MET	HB		4	-7.490	29,432	3.1		0.00	0.00	16	4
C	+	MET	1₽	18	4	-6.228	28,709	3.6		0.00	0.00	16	4
SD		MET	╀	8	4	<u>-6.445</u>	26,925	3.7		0.00	0.00	11	Į.
CE	_	MET	부	8	+	-6.387	26.701	5.5		0.00	0.00	6	4
Ĕ		MET	부	18	4	-9.574	29.266	1.7		0.00	0.00	6	1
lö.		MET		8	4	-10,478	28.445	1.9		10.00	0.00	18	╛
N		<u>GLN</u>	₽	18	+	-9.809	30,522	1.3		0.00	0.00	17	4
CA	Ψ	GLN	₽	18	4	<u>-11.155</u>	31.043	1.1		0.00	0.00	16	1
CB		GLN	₽	8	+	<u>-11.101</u>	32.552	0.9		0.00	0.00	6	1
ç		GLN	Į₿	8	+	-10.844	33,369	2.1		0.00	0.00	6	1
Ĕ		GLN	₽	18	+	-10.738	34.853	1.9		0.00	0.00	6	1
0		GLN	B	18	+	-10.769	35.311	0.7		0.00	0.00	8	1
N		GLN	Į B	18	+	<u>-10.614</u>	35,637	2.9	91	0.00	0.00	17	1
<u>ç</u>	_	GLN	₽.	8	+	<u>-11.886</u>	30.313	0.0		0.00	0.00	16	1
0		CLN.	B	8	+	<u>-12,990</u>	29,807	0.2		0.00	0.00	8	1
N.		ASP	В	18		-11.248	30.116	-1,0		0.00	0.00	17	1
ÇA		ASP	В	18		<u>-11.840</u>	29.371	-2.1	71	0.00	0.00	16	1
CB		SP_	B	18		-10.878	29.284	-3.3		0.00	0.00	6	1
C		\SP_	B	8		-11.590	28,837	4.6	27	0.00	0.00	6	1
0_		\SP	В	8	Ļ	-12,739	29.283	4.8	36	0.00	0.00	8	I
0		LSP_	B	8	Ŀ	-11.029	28.050	-5.4	13	0.00	0.00	8]
С	14	<u>ISP</u>	В	8	Ŀ	12.257	27.955	-1.7	85	0.00	0.00	6]
0		\SP_	В	8	Ŀ	13.279	27.457	-2.2	61	0.00	0.00	8]
N		ER_	В	8	Ŀ	11.451	27.269	-0.9	87	0.00	0.00	7	
CA		ER	В	8	ŀ	11.687	25.893	-0.6		0.00	0.00	6]
CB	18	ER	В	8	Ŀ	10,467	25.349	0.15		0.00	0.00	6	
0	LS	ER	В	8		10.360	25,936	1.43		0.00	0.00	8	
Ç	S	ER	В	8	Ŀ	12.934	25.657	0.23		0.00	0.00	6	
0	LS	ER	В	8	Ŀ	13,620	24.651	0.03		0.00	0.00	8	
Ŋ	C	LY	В	8		13.196	26.528	1.20		0.00	0.00	7	
CA	LC	LY	В	8		14.320	26,296	2.11		0.00	0.00	6	
C		LY	В	8		13.881	25.231	3.12		0.00	0.00	6	
0		LY	В	8		14 413	24 126	3 18		0.00	0.00		

7000000z		7.0							
000000		1.8	19	-12.80	0 ! 25.551	3.326	0.00	0.00	T7
OUUUO	BILEU	В	9	1-12.26			0.00		16
9000		<u> ↓ B</u>	9	1-10.77	9 24.409	4.677	0.00	0.00	16
000	LEU	<u> B</u>	9	1-10.30	2 22.986	4.394	0.00	0.00	6
C O	LEU	<u> B</u>	19	-10.92	6 21.966	5.334	0.00	0.00	6
0	LEU	<u> B</u>	9	-10.57	4 22.608	2.943	0.00	0.00	6
	LEU	↓B	9	-12.50	7 25.349	6.216	0.00	0.00	6
N	LEU	<u> </u>	9	1-12.20	9 26.531	6.384	0.00	0.00	8
	GLU	<u> B</u>	19	-13.16		7.112	0.00	0.00	7
C/	_	<u> </u>	9	-13.346	25.130	8.474	0.00	0.00	6
C		В	9	-14.75			0.00	0.00	6
C	GLU	<u> B</u>	19	-15.849	25.580	8.213	0.00	0.00	6
C	GLU	<u> </u>	19	16.839	26.303	9.104	0.00	0.00	6
0	GLU	B	9	1-17.285	25.715	10.113	0.00	0.00	8
0	GLU	↓B	<u> 19</u>	-17.179		8.797	0.00	0.00	8
C	GLU	B	9	-12.279	24,461	9.339	0.00	0.00	6
0	GLU	B	9	-12.201	23.231	9.355	0.00		18
N	ILE	B	19	-11.401	25,263	9.933	0.00	0.00	7
CA	ILE	В	Ĺ9	-10.330	24.696	10.753	0.00	0.00	6
CE	LE	В	9	-9.003	25.449	10.595	0.00	0.00	6
C	ILE	B	9	-7.980	25,028	11.642	0,00	0.00	6
C	ILE	ÌВ	9	-8.425	25,204	9.195	0.00	0.00	6
С	ILE	В	9	-8.612	26,358	8.239	0.00	0,00	6
C	ILE	В	9	-10.771	24.645	12.212	0.00	0.00	6
0	ILE	B	9	-10.993	25.660	12.864	0.00	0.00	8
N	THR	B	9	-10.950	23.422	12.698	0,00	0.00	7
CA	THR	B	9	-11.365	23.176	14.070	0.00	0.00	6
CB	THR	B.	19	-12.591	22.241	14.128	0.00	0.00	6
0	THR	B	9	-12.229	20.972	13.563	0.00	0.00	8
Ç	THR	В	9	-13.772	22,810	13,365	0.00	0.00	6
<u>c</u>	THR	В	9	-10,245	22.505	14.854	0.00	0.00	16
<u> </u>	THR	В	9	9.318	21.938	14.274	0.00	0.00	8
N	GLU	В	9	-10.342	22.519	16.180	0.00	0.00	7
CA	GLU	B	9	-9.350	21.894	17.050	0.00	0.00	6
<u>ÇB</u>		<u>B</u>	9	-9.745	22.075	18.517	0.00	0.00	6
č.	GLU	<u>B</u>	9	-8.854	21.362	19,515	0.00	0.00	6
용	GLU	B	9	8.091	22.295	20.431	0.00	0.00	6
	GLU	B	9	-6.877	22,071	20.630	0.00	0.00	8
o c	GLU	В	9	-8.696	23.252	20,959	0.00	0.00	8
ŏ	GLU	В	9	-9.159	20.418	16,722	0,00	0.00	5
Ň	GLU	В	9	-8.050	19.886	16.829	0.00	0.00	8
CA	GLU	В	9	-10.204 -10.171	19.729	16.283	0,00	0.00	7
CB	GLÚ	В	9	-11.575	18.345 17.732	15.864 15.975	0.00	0.00	6
~~	GLU	В	9	-11.800	16.947	17.254	0.00	0.00	6
C		В	9	-13.188	17.128			0.00	6
C C									
C	GLU	Я	O	-14 097		17.834	0.00		6
c o	GLU	B	9	-14.097	16.358	17.458	0.00	0.00	8
С О	GLU GLU	В	9	-13.370	16.358 18.034	17.458 18.674	0.00	0.00 0.00	8
C O O C	GLU GLU	B B	9	-13.370 -9.670	16.358 18.034 18.170	17.458 18.674 14.432	0.00 0.00 0.00	0.00 0.00 0.00	8 8 6
C 0 0 C 0	GLU GLU GLU	B B B	9 9 9	-13.370 -9.670 -9.491	16.358 18.034 18.170 17.043	17.458 18.674 14.432 13.964	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8 8 6 8
C O C O N	GLU GLU GLU GLU ASN	B B B	9 9 9	-13.370 -9.670 -9.491 -9.451	16.358 18.034 18.170 17.043 19.258	17.458 18.674 14.432 13.964 13.708	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8 6 8 7
C O C O N CA	GLU GLU GLU ASN	B B B B	9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967	16.358 18.034 18.170 17.043 19.258 19.250	17.458 18.674 14.432 13.964 13.708 12.345	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8 6 8 7 6
C O C O N CA CB	GLU GLU GLU GLU ASN ASN	B B B B	9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751	16.358 18.034 18.170 17.043 19.258 19.250 20.278	17.458 18.674 14.432 13.964 13.708 12.345 11.509	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 8 7 6 6
C O O O N CA CB C	GLU GLU GLU GLU ASN ASN ASN	B B B B B	9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694	17.458 18.674 14.432 13.964 13.708 12.345 11.509	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 8 7 6 6
C O C O CA CB C	GLU GLU GLU GLU ASN ASN ASN ASN	B B B B B	9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 6 8 7 6 6 8
COONCA	GLU GLU GLU GLU ASN ASN ASN ASN ASN	B B B B B B	9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 6 8 7 6 6 6 8
COONCA	GLU GLU GLU ASN ASN ASN ASN ASN ASN	B B B B B	9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509 19.629	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 6 8 7 6 6 8 7 6
C O O O C O O O O O O O O O O O O O O O	GLU GLU GLU GLU ASN ASN ASN ASN ASN ASN ASN ASN ASN ASN	B B B B B B B B	9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497 -6.767	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509 19.629 19.093	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209 11.376	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 6 8 7 6 6 6 8 7 6 8
COONCA	GLU GLU GLU GLU ASN ASN ASN ASN ASN ASN ASN ASN ASN ASN	B B B B B B B B B B	9 9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497 -6.767 -7.065	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509 19.629 19.093 20.621	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209 11.376 12.974	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 8 7 6 6 8 7 6 8
COONCA	GLU GLU GLU ASN ASN ASN ASN ASN ASN ASN ASN ASN ASN	B B B B B B B B B B B B B B B B B B B	9 9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497 -6.767 -7.065 -5.737	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509 19.629 19.093 20.621 21.205	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209 11.376 12.974 12.898	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 8 7 6 6 8 7 6 8 7 6
C 0 0 C 0	GLU GLU GLU ASN ASN ASN ASN ASN ASN ASN ASN ASN ASN	B B B B B B B B B B	9 9 9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497 -6.767 -7.065 -5.737 -5.410	16.358 18.034 18.170 17.043 19.258 19.258 19.694 18.522 20.509 19.629 19.093 19.093 20.621 21.205 21.900	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209 11.376 12.974 12.898 14.219	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 8 6 8 7 6 6 8 7 6 8 7 6
COONCA	GLU GLU GLU ASN ASN ASN ASN ASN ASN ASN ASN ASN ASN	B B B B B B B B B B B B B B B B B B B	9 9 9 9 9 9 9 9	-13.370 -9.670 -9.491 -9.451 -8.967 -9.751 -10.403 -10.214 -11.188 -7.497 -6.767 -7.065 -5.737	16.358 18.034 18.170 17.043 19.258 19.250 20.278 19.694 18.522 20.509 19.629 19.093 20.621 21.205	17.458 18.674 14.432 13.964 13.708 12.345 11.509 10.279 9.952 9.584 12.209 11.376 12.974 12.898	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 6 8 7 6 6 8 7 6 8 7 6

C	THE	≀ I	3 9	-3.494	18.120	13,153	0.00	i 0.00	16	-
CE				-3.349	17.091			0.00	6	
Го	THE			-3.158	17.483		0.00		8	
C	THE	≀ I E	3 9	-3.510	15.649			0.00	6	
С	THE		_	-3.392	17.455		0.00		_ 6	_
0	THE			-2.336	16.879		0.00		_	
N	ARG			-4.417	17.469		0.00		18	-
CA			_	-4.390	16.835				+7	_
CE				-5.674	16.018		0.00		- 6	
Ç	ARG			-5.976	14.996		0.00		16	_
Č	ARG			-4.989			0.00	_	- 6	4
N	ARG				13.839		0.00	_	- 6	_
cz	ARG		_	-5.164	13.029	9.300	0.00	_	17	_
N	ARG			4.248	12.221	8.785	0.00	_	- 6	_
N				-3.058	12.093	9.357	0.00		17	4
	ARG			4.525	11.530	7.686	0.00		17	4
<u>C</u>	ARG			-4.224	17.795	8.512	0.00		16	Ц
_	ARG			-4.283	17.365	7.356	0.00		18	4
N	ILE	B	_	-4.106	19.091	8.777	10.00		7	4
CA	ILE	<u> </u>	_	-3.917	20.072	7.716	0.00		16	┙
CB		<u> </u>	_	4.981	21,183	7.700	0.00		6	┙
<u>c</u>	ILE	<u> ∃B</u>		4.898	21.961	6.389	0.00	0.00	6	4
C_	ILE	ĻВ		-6.399	20.638	7.890	0.00	0.00	6	┙
<u>c</u>	ILE	↓ <u>B</u>	11	-7.341	21.612	8,564	0.00	0.00	6	┛
<u>c</u>	ILE	<u>₿</u>	11	-2.543	20,728	7.839	0.00	0.00	6	J
0	ILE	↓B	41	-2.204	21.247	8.904	0.00	0.00	8	J
N	GLY	↓B	1	-1.772	20,711	6.756	0.00	0.00	7	┙
CA	GLY	B	11	-0.455	21,336	6.771	0.00	0.00	6	╛
C_	GLY	<u>₽</u>	11	-0.164	22.114	5.493	0.00	0.00	6	┙
0	GLY	B	11	-1.084	22.519	4.781	0.00	0.00	8	J
N	ALA	<u> </u>	11	1.123	22.287	5.193	0.00	0.00	7	l
CA	ALA	₽.	1	1.544	23.043	4.025	0.00	0.00	6	1
CB	ALA	↓ <u>B</u>	1	1.703	24,508	4.437	0.00	0.00	16	4
<u>c</u> _	ALA	<u> B</u>	11-	2.845	22,569	3.390	0.00	0.00	6	1
0	ALA	Į₿.	μ.	3.731	21,988	4.008	0.00	0.00	18	1
N_	ALA	Į₿.	11	2.964	22.834	2.093	0.00	0.00	7	l
CA	ALA	B	11	4.129	22.478	1.294	0.00	0.00	6	1
CB	ALA	<u> </u>	11	3.955	21.139	0.604	0.00	0.00	16	1
Č_	ALA	B	11	4.359	23.608	0.290	0.00	0.00	16	1
<u>o</u> _	ALA	<u>B</u>	ᆢ	3.925	23.556	-0.858	0.00	0.00	18	1
N_	ILE	B	11	4,901	24,712	0,799	0.00	0.00	17	1
CA	ILE	В	1	5.111	25.917	0.008	0.00	0.00	6	1
CB	ILE	<u>IB</u>	1	4.382	27.134	0.609	0.00	0.00	16	1
<u>c</u> _	ILE	B	1	4.641	28.386	-0.218	0.Q0	0.00	16	ı
c_	ILE,	<u>IB</u>	1	2.875	26.885	0.727	0.00	0.00	6	1
<u>C</u>	ILE	B	11	2.201	27.727	1.789	0.00	0.00	6	1
ç	ILE	В	1	6.599	26.245	-0.103	0.00	0.00	6	1
0	ILE	В	1	7.283	26.357	0.912	0.00	0.00	8	l
N.	GLY	В	1	7.071	26.480	-1.321	0.00	0.00	7	1
ÇA.	GLY	В	1	8.464	26.805	-1.546	0.00	0.00	6	1
Ç.	GLY	В.	ı	8.689	28.092	-2.326	0.00	0.00	6	ı
0	GLY	В	1	7.803	28.887	-2.619	0.00	0.00	8	ı
N.	SER	<u> B</u>	11	9.955	28.293	-2.663	0.00	0.00	-7	1
CA	SER	В	1	10.463	29.437	-3.400	0.00	0.00	6	
CB	SER	В	1	10.521	30,675	-2.511	0.00	0.00	6	
0	SER	В	1	10.955	31.817	-3.224	0.00	0.00	8	ı
c	SER	8	1	11.864	29.074	-3.895	0.00	0.00	6	ŀ
0	SER	В	1	12.571	28.343	-3.198	0.00	0.00	8	
N	GLY	В		12.255	29.560	-5.062	0.00	0.00	7	
CA	GLY	В	1	13.558	29.254	-5.619	0.00	0.00	6	
c I	CLY	В	1	14.702	30.060	-5.036	0.00	0.00	6	
0 [GLY	В	1	15.795	29.516	-4.846	0.00	0.00	8	
N	ILE	В	1	14.500	31.353	4.800	0.00	0.00	7	
CA	ILE	В	1	15.555	32,223	4.284	0.00	0.00	6	
	ILE	В	î	15.897		5 317	0.00	0.00	٦	

Figure 1 - 30

-		8 1	1 1	16.794	34.404	4.750	0.00	0.00	5
<u>c</u>	ILE	-	_		32.700	-6.544	0.00	0.00	6
C	ILE	بب	1	16.591		7.796	0.00	0.00	6
C	ILE	<u>B </u>	귀	16.491	33.542				6
<u> </u>	ILE	<u>B</u>	14	15.199	32.836	-2.938	0.00	0.00	3
0	ILE	В	1	16.082	33.200	-2.153	0.00	0.00	_
N	GLY	В	1	13.913	32.958	-2.623	0.00	0.00	4
CA	GLY	В	ᆚ	13.500	33,524	·1.345	0.00	0.00	6
C	GLY	В	ı	13,749	35.023	-1.274	0.00	0.00	6
0	GLY	В	1	13.728	35.733	-2,279	0.00	0.00	8
N	GLY	В	1 1	13,868	35.559	-0.062	0.00	0.00	7
CA	GLY	В	1	13.870	36.971	0.218	0.00	0.00	6
C	GLY	В	1	15.050	37.802	-0.223	0.00	0.00	6
ŏ	CLY	В	1	15.661	38.511	0.585	0.00	0.00	8
Ŋ	LEU	В	1	15.285	37.900	-1.526	0.00	0.00	7
		В	ì	16.398	38.625	-2.104	0.00	0.00	6
CA	LEU		+	16,437	38,408	-3.622	0.00	0.00	6
CB	LEU	В	_		37.729	4.225	0.00	0.00	6
C.	LEU	В	1	17.663			0.00	0.00	6
С	LEU	В	1	17.647	37.859	-5,744	0.00	0.00	6
C_	LEU	В	L	18.962	38.287	-3.670			
C_	LEU	В	1	16,332	40.119	-1.822	0.00	0.00	6
0	LEU	В	1	17.336	40.749	-1.493	0.00	0.00	8
N	GLY	В	ш	15.138	40.687	-1.966	0.00	0.00	7
CA	GLY	В	1	14.920	42.106	-1.717	0.00	0.Q0	6
C_	GLY	В	1	15.413	42.510	-0.333	0.00	0.00	6
TQ_	GLY	В	1_	16.245	43.408	-0.215	0.00	0.00	8
N	LEU	В	\Box 1	15.004	41.772	0.696	0.00	0.00	7
CA	LEU	В	1	15.384	42.075	2,069	0.00	0.00	6
CB	LEU	В	1	14.380	41,456	3.045	0.00	0.00	6
C	LEU	В	li	13,469	42.434	3,794	0.00	0.00	16
Č	LEU	В	l i	12.982	43.576	2,917	0.00	0.00	6
č	LEU	В	ī	12.272	41.709	4.396	0.00	0.00	6
Ĭč	LEU	В	li	16,822	41.718	2,403	0.00	0.00	6
ŏ	LEU	В	lî	17.408	42.358	3.288	0.00	0.00	8
N	ILE	В	î	17.433	40.762	1,707	0.00	0.00	7_
CA	ILE	В	ì	18.834	40.428	1,959	0.00	0.00	6
	_	В	î	19.264	39.105	1.314	0.00	0.00	6
CB	ILE	В	+	20.776	38.921	1.351	0.00	0.00	6
<u>ç</u>	ILE		++	18.579	37.928	2.019	0.00	0.00	6
Ĕ	ILE	B	!!		36.654	1.206	0.00	0.00	6
<u>c</u>	ILE	분	ļ.	18.555		1.461	0.00	0.00	6
<u>C</u>	ILE	IB.	#	19.716	41.575		0.00	0.00	8
10	ILE	В	1	20,702	41.937	2.103	0.00	0.00	7
N	GLU	B	11	19.338	42.165	0.332			6
CA	GLU	<u> B</u>	11	20.048	43.316	-0.209	0.00	0.00	6
CB		Į B	11	19,511	43,682	-1,590	0.00	0.00	
C	GLU	<u> B</u>	11	19,818	42.650	2.666	0.00	0.00	6
C	GLU	B	11	19,261	43.083	4.010	0.00	0.00	16
Q	GLU	В	1	18.715	42.231	4.736	0.00	0.00	18
0	GLU	В	\Box	19.370	44.288	4.318	0.00	0.00	18
C	GLU	В	П	19.955	44.515	0.727	0.00	0.00	6
0	GLU	В	1	20.977	45.118	1.050	0.00	0.00	18
N	GLU	В	li	18,755	44.849	1.189	0.00	0.00	17
CA	_	B	Ti	18,559	45.961	2,107	0.00	0.00	6
CB		₩ B	î	17.090	46.078	2.520	0.00	0.00	6
C	GLU	B	1	16.822	47.239	3.466	0.00	0.00	6
_	GLU	B	††	15.373	47.324	3.901	0.00	0.00	6
S.		_	_		47.683	3.058	0.00	0.00	8
lõ-	GLU		11	14.526			0.00	0.00	8.
0	GLU	B	11	15.081	47.032	5.079	0.00	0.00	6
C	GLU	_	41	19.422	45.816	3,358		0.00	8
0	GLU		4	20,204	46,703		0.00	_	7
N	ASN	<u> B</u>	11	19.302	44.673	4.026	0.00	0.00	_
CA	ASN	B	Īι	20,071	44.377	5.223	0.00	0.00	16
100									
CE			Τī	19.640	43.034	5,823	0.00	_	16
		B			43.034 43.116	5,823	0.00 0.00 0.00	0.00	6

		_ (- 1	I	10 501 1	= 040	0.00	0.00	7
첫	ASN	밁	+	17.280	42.501 44.367	5.940 4.958	0.00	0.00	6
ဌ	ASN ASN	B B	+ 1	21.570 22.333	44.848	5.801	0.00	0.00	8
0 N	HIS	В	1	22.005	43.840	3.811	0.00	0.00	7
CA	HIS	B	7		43.856	3.503	0.00	0.00	6
CB	HIS	B	1		43,004	2.295	0.00	0.00	6
C	HIS	В	1	25.315	42.861	2.216	0.00	0.00	6
c i	HIS	В	î	26,222	43.348	1.343	0.00	0.00	6
N	HIS	В	i	26.030	42.144	3.151	0.00	0.00	7
CE	HIS	B	1	27.316	42.190	2.852	0.00	0,00	6
N	HIS	В	1	27.457	42.915	1.755	0.00	0.00	7
Ċ	HIS	В	1	23.889	45.303	3.321	0.00	0.00	6
ŏ	HIS	В	1	24.898	45.713	3.898	0.00	0.00	8
N	THR	В	1	23.091	46.103	2.620	0.00	0,00	7
CA	THR	В	1	23.383	47.523	2.448	0.00	0.00	6
CB	THR	В	ı	22.322	48,196	1.562	0.00	0.00	6
0	THR	В	ı	22.311	47.533	0.288	0.00	0.00	8
C I	THR	В	1	22.621	49,671	1.345	0.00	0.00	6
С	THR	В	ī.	23.500	48.228	3.792	0.00	0.00	6
0	THR	В	1	24.478	48,942	4.033	0.00	0.00	8
N	SER	В	1	22.553	47.994	4.695	0.00	0.00	7
CA	SER	В	1	22.625	48.540	6.047	0.00	0.00	6
СВ	SER	В	1	21,426	48.068	6.870	0.00	0.00	6
0	SER	В	1	20.215	48,456	6.236	0.00	0.00	8
C	SER	В	1	23.939	48.154	6.711	0.00	0.00	5
	SER	B	1	24.722	49.019	7.100	0.00	0.00	18
N	LEU	<u>B</u>	1	24.244	46.863	6.777	0.00	0.00	6
CA	LEU	B	1	25,484	46.363	7.350	0.00	0.00	6
CB	LEU	В	1	25.569	44.846	7.172	0.00	0.00	6
<u>c</u>	LEU	<u>₽</u>	ļ.	26.914	44.158	7,405	0.00	0.00	6
<u>c</u>	LEU	B	1	27,242	44.061	8.887 6,770	0.00	0.00	6
Ğ.	LEU	B	1	26.922 26.720	47.037	6.775	0.00	0.00	6
C O	LEU LEU	В	1	27.612	47.426	7.535	0.00	0.00	8
N	MET	В	1	26.808	47.199	5.461	0.00	0.00	7
CA	MET	В	i	27.955	47.832	4.826	0.00	0.00	6
CB	MET	В	1	27.840	47,751	3.301	0.00	0.00	6
C	MET	В	1	28,732	46.686	2.680	0.00	0.00	6
SD	MET	В	1	28.571	46.613	0.886	0.00	0.00	Ε
CE	MET	В	1	29.873	47.738	0.383	0.00	0.00	6
C	MET	В	ı	28,141	49.285	5.246	0.00	0.00	6
0	MET	B	1	29,272	49.742	5.426	0.00	0.00	8
N	ASN	В	1	27.047	50.023	5.396	0.00	0.00	7
CA	ASN	В	1	27.099	51.420	5.779	0.00	0.00	6
CB	ASN	B	11	25.961	52.184	5.088	0.00	0.00	6_
C_	ASN	В	11	26.056	52.193	3.581	0.00	10.00	6
0	ASN	B	ļı.	25.032	52,318	2.904	0.00	0.00	18
N	ASN	B	1	27.260	52.066	3.037	0.00	0.00	7
C	ASN	B	11	26.985	51,668	7.277	0.00	0.00	6
0	ASN	В	1	27.143	52.824	7.685	0.00	0.00	18
N	GLY	Į₿.	11	26.616	50.669	8.072	0.00		7
CA	GLY	B	₩.	26.330	50.906	9.474	0.00		6
C	GLY	Į₿.	1	26,852	49.890	10.464	0.00		6
0	GLY	ᄩ	1	26.807	50.157	11.671	0.00		8
N	GLY	<u>B</u>	1	27.346	48.745	10.006	0.00	_	6
CA	GLY	Į₿	11	27.819	47.709	10.932	0.00		6
LC_	GLY	 ₽	11	26.629	46.810	11.262	0.00		18
0	GLY	↓ <u>B</u>	12	25.515	47.064	10.801	0.00		7
N_	PRO	<u> </u>	11	26.840	45.791	12.085	0.00		6
JC.	PRO	B	+1	28.172	45.431	12.638	0.00		6
CA	PRO	₽	+1	25.828	44.812		0.00	_	6
CB		₽	+1	26.606	43.681	13.095	0.00	_	6
	PRO	B	11	27.872	1 44 292	113.3/1	10.00	1 0.00	
C	PRO	B		24,670	45.251		0.00	_	6

Figure 1 - 31

-		_	-	20.000	44.533	10.005	0.00	0.00	
0	PRO	В	1	23.627	44.581	13.297	0.00	0.00	7
N	ARG	В	1	24.753	46.392				_
CA	ARG	В	1	23.680	46.909	14.785	0.00	0.00	6
CB	ARG	В	1	24.220	47.994	VA1.55	0.00	0.00	6
بعا	ARG	В	ᆚ	25,053	47.444	16.872	0.00	0.00	6
C	ARG	В	1	24.755	48.182	18.166	0.00	0.00	6
N.	ARG	В	1	25.893	48.199	19.076	0.00	0.00	17
C2	ARG	В	1	26,353	49.285	19.690	0.00	0.00	6
N	ARG	В	1.1	25.780_	50.466	19.497	0.00	0.00	1
N	ARG	В	1	27.395	49.192	20.505	0.00	0.00	7
C	ARG	В	l l	22.514	47.460	13.977	0.00	0.00	6
О	ARG	В	1	21.412	47.635	14.500	0.00	0.00	8
N	LYS	В	1	22.730	47.733	12.695	0.00	0.00	7
CA	LYS	В	1	21.703	48.240	11.804	0.00	0.00	6
СВ	LYS	В	ī	22.295	49.222	10.789	0.00	0.00	6
c	LYS	В	ī	22.827	50.498	11.425	0.00	0.00	6
c	LYS	В	1	22.565	51.706	10.539	0.00	0.00	6
ČE	LYS	В	1	21.724	52.748	11.258	0.00	0.00	6
		В		20.929	53.572	10.304	0.00	0.00	7
NZ	LYS	В	1	20.923	47.102	11.086	0.00	0.00	6
Ĕ	LYS		1			10.330	0.00	0.00	8
0	LYS	B	1	20.040	47.343	11.305	0.00	0.00	7
N	ILE	B	ļ.	21.424	45.867		0.00	0.00	6
CA	ILE	В	1	20.767	44.706	10.731	_		$\overline{}$
CB	ILE	B	1	21,578	43.404	10.856	0.00	0.00	6
<u></u>	ILE	<u>B</u>	1	20.775	42,219	10.324	0.00		
C	ILE	B	μ.	22.910	43.525	10,113	0.00	0.00	6
C_	ILE	B	1	23.835	42.340	10.277	0.00	0.00	6
LC_	ILE_	B	1	19.419	44.512	11.427	0.00	0.00	6
0_	ILE	B	LL.	19.349	44.325	12.639	0.00	0.00	8
N_	SER	В	1	18.355	44.552	10.638_	0,00	0.00	17
CA	SER	B.	ㅗ	17.017	44.340	11.172	0.00	0.00	6
CB	SER	B	L	16.019	44,254	10.011	0.00	0.00	6
0_	SER	В	1	14.890	43.482	10.380	0.00	0,00	8
C	SER	B	1	16.975	43.051	11.978	0.00	0.00	6
0	SER	В	LL.	17.404	41.993	11.516	0.00	0.00	8
N_	PRO	B	ı	16.275	43,076	13.110	0.00	0.00	17
C_	PRO	В	1	15.680	44.296	13.712	0.00	0.00	6
CA	PRO.	В	l.	16.053	41.902	13.934	0.00	0.00	6
CB	PRO	В	1	15.352	42,436	15.176	0.00	0.00	6
С	PRO	В	\Box	14.769	43.742	14.773	0.00	0.00	6
C	PRO	В	ī	15,225	40.829	13.247	0.00	0.00	16
ō	PRO	В	1	15,257	39.658	13.634	0.00	0.00	8
N	PHE	В	1	14.478	41.172	12.205	0.00	0.00	17
CA	PHE	В	ī	13.730	40,219	11,409	0.00	0.00	6
CB	PHE	В	ī	12.382	40.825	10.994	0.00	0.00	6
C	PHE	В	1	11.595	41.335	12.171	0.00	0.00	6
C	PHE	В	1	11.377	42.693	12.336	0.00	0.00	6
_		B	i	11.086	40.459	13.114	0.00	0.00	6
C	PHE		1		43.168	13.420	0.00	0.00	6
CE	PHE	B	-	10.663	40.928	14,200	0.00	0.00	6
CE	PHE	 ₽	H				0.00	0.00	6
CZ	PHE	B	11	10.161	42.284	14.352			6
C	PHE	쁜	1	14.491	39.718	10.189	0.00	0.00	8
0	PHE	B	1	13.898	38.982	9.391	0.00	0.00	
N	PHE	<u> </u>	1	15,790	39.978	10.062	0.00	0.00	7
CA	PHE	В	1	16.551	39.486	8.923	0.00	0.00_	6
CB	PHE	B	1	18.074	39.603	9.115	0.00	0.00	6
С	PHE	B	11	18.826	38.959	7.976	0.00	0.00	6
С	PHE	В	1	18.787	39,507	6.707	0.00	0.00	6
C	PHE	В	1	19.541	37.789	8.173	0.00	0.00	6
CE	PHE	В	li	19.458	38.912	5.657	0.00	0.00	6
CE	PHE	В	ī	20.212	37.189	7.126	0.00	0.00	6
CZ	PHE	В	11	20.174	37,752	5.865	0.00	0.00	6
C	PHE	В	Īī	16.181	38.054	8.545	0.00	0.00	6
Ō.	PHE	В	1î	15.623	37.836	7.469		0.00	8
				AV.VAV					

. , 1	VAL.	- i	1 1	16.502	27.077	0.201	0.00	0.00	7
N CA	VAL I	B B	1	16.502 16.273		9.381	0.00	0.00	6
CA	VAL	밁	1	16.761	34.775	10.235	0.00	0.00	6
			_				0.00	0.00	6
<u>ç</u>	VAL	<u>B</u> !	1	16.528	33.300	9.955		0.00	6
Ç	VAL	<u>B</u>	1	18.237	35.028	10.508	0.00		
<u>c</u>	VAL	В	1	14.848	35.319	8.695	0.00	0.00	6
0	VAL.	В	1	14.578	34.863	7.578	0.00	0.00	8
N	PRO	В	1	13.874	35.543	9.572	0.00	0.00	17
C	PRO	В	1	14.098	36.089	10.939	0.00	0.00	6
CA	PRO	В	1	12.484	35.204	9.343	0.00	0.00	6
CB	PRO I	В	1	11,775	35,569	10.644	0.00	0.00	6
C	PRO	В	1	12.827	35.760	11.666	0.00	0.00	6
O.	PRO	В	1	11.804	35.891	8.174	0.00	0.00_	6
0	PRO	8	1	10,742	35.457	7.712	0.00	0.00	8
И	SER	В	1	12,344	37.001	7.698	0.00	0.00	7
CA	SER	В	1	11.813		6.572	0.00	0.00	6
СВ	SER	В	1	12.157	39.223	6.762	0.00	0.00	6
O	SER	В	1	13.534	39.457	6.544	0.00	0.00	8
			1	12.380	37.276	5.237	0.00	0.00	6
ပဝ	SER	B	1	11.814	37.593	4.187	0.00	0.00	8
	SER	_	_		36.548	5.255	0.00	0.00	7
N C4	THR	B	1	13.492		4.027	0.00	0.00	6
CA	THR	В	Ļ	14.119	36.091		0.00	0.00	6
CB	THR	В	1	15.619	36.489	4.031			8
0	THR	В	1	16.241	35.919	5.189	0.00	0.00	7
Ç	THR	<u>B</u>	1	15.784	37.996	4.056	0,00	0.00	6
C	THR	В	_	14.063	34.605	3.728	0.00	0.00	6
٥.	THR	В	1	14.106	34.252	2.541	0.00	0.00	8
N	ILE	В	1	14.096	33.738	4.734	0,00	0.00	7
CA	ILE	В	1	14.235	32.307	4.459	0.00	0.00	6
CB	ILE_	В	1	14.751	31.537	5.682	0.00	0.00	6
C_	ILE	В	ı	16.167	32.021	5.995	0.00	0.00	6
<u>c</u> _	ILE	В	1	13.841	31.706	6.894	0.00	0.00	6
<u></u>	ILE	В	LL.	14.237	30.867	8.092	0.00	0.00	6
С	ILE	В	1	12.991	31.691	3.849	0.00	0.00	6
0	ILE	В	1	11.839	32.013	4.121	0.00	0.00	8
N_	VAL	В	ı	13,232	30,753	2.945	0.00	0.00	17
CA	VAL	В	1	12.270	30.056	2.121	0.00	0.00	6
CB	VAL	В	ī	13,026	29.000	1.273	0.00	0.00	6
C	VAL	В	1	12.144	27.905	0.709	0.00	0.00_	6
С	VAL	В	1	13.746	29.720	0.133	0.00	0.00	6
С	VAL	В	1	11.076	29.441	2.815	0.00	0.00	6
o_	VAL	В	1	9.968	29.507	2.257	0.00	0.00	8
N	ASN	В	1	11.223	28.843	3.991	0.00	0.00	7
CA	ASN	В	î	10.104	28.184	4.651	0.00	0.00	6
CB	ASN	В	ī	10.649	27.054	5.540	0.00	0.00	6
C	ASN	В	î	11.359	27,603	6.762	0.00	0.00	6
Ö	ASN	В	1	12.384	28,270	6.633	0.00	0.00	8
	ASN	В	ì	10.778	27.372	7.933	0.00	0.00	7
N	ASN	В	î	9.195	29,110	5.443	0.00	0.00	6
<u>چ</u>			1	8.200	28.637	6.008	0.00	0.00	8
0	ASN	B	_			5.435	0.00	0.00	7
N.	MET	В	1	9.426	30.418		_		_
CA	MET	B	1	8.615	31.358	6.196	0.00	0.00	6
CB	MET	B	1	9,409	32.622	6.529	0.00	0.00	6
LC.	MET	В	1	10.438	32,377	7.629	0.00	0.00	6
SD	MET	В	1	9.791	31.455	9.040	0.00	0.00	1
CE	MET	В	11	8.541	32.587	9.643	0.00	0.00	6
С	MET	В	1	7.251	31.641	5.593	0.00		6
0	MET	В	l.	6.382	32.153	6.317	0,00		<u> 8</u> _
N	VAL	В	1	6.994	31.286	4.337	0.00		17
CA	VAL	В	1	5.661	31.471	3.771	0.00	0.00	6
CB	VAL	В	1	5.563	31.317	2.251	0.00	0.00	6
C	VAL	В	î	4,127	31.559	1.785	0.00		6
C	VAL	В	î	6.503	32.273	1.536	0.00		6
Ċ.	VAL	В	î	4.753	30.425	4.435		0.00	6
		1 M.	_						

			_						-
0	VAI.	프	1	3.637	30.717	4.856	0.00		
N	ALA	В	1	5.264	29.202	4.561	0.00		7
CA	ALA !	В	1	4.540	28.115	5.214	0.00	0.00	6
CB	ALA	<u>B</u> !	•	5.166	26.767	4.897	0.00		6
<u>C </u>	ALA	В	1	4.490	28.344	6.723	0.00	0.00	
ᆈ	ALA	В	1	3.491	28.053	7.378	0.00	<u>v.v.</u>	~
N	GLY	В	1	5.544	28.940	7.275	0.00	0.00	7
CA	GLY	В	1	5.559	29.332	8,678	0.00	0.00	6
C	GLY	В	l	4.428	30.316	8,970	0.00	0.00	6
0	GLY	В	ı	3.660	30,100	9.905		0.00	8
Ŋ	HIS	В	1	4.297	31.369	8,172	0.00	0.00	7
CA	HIS	В	1	3.265	32.372	8.362	0.00	0.00	6
CB	HIS	В	1_	3.500	33.598	7.458	0.00	0.00	6
C	HIS	В	1	4.431	34.570	8.124	0.00	0.00	6
C	HIS	В	1	4.275	35.318	9.242	0.00	0.00	6
Ŋ	HIS	В	l l	5.706	34.815	7.668	0.00	0.00	7
CE	HIS	В		6.292	35.692	8.467	0.00	0.00	6
N	HIS	В	ı	5.445	36.011	9.430	0.00	0.00	7
C	HIS	В	1	1.848	31.858	8.173	0.00	0.00	6
0	HIS	В	1	0.973	32,218	8.967	0.00	0,00	8
N	LEU	В	Н	1.607	31.030	7.163	0.00	0.00	7
CA	LEU	В	ı	0.266	30.503	6.932	0.00	0.00	6
CB	LEU	В	ī.	0.168	29.849	5,555	0.00	0.00	6
C_	LEU	В	1	-0.056	30.793	4.370	0.00	0.00	6
С	LEU	В	1	-0.048	30.022	3.059	0.00	0.00	6
С	LEU	В	ı	-1.358	31.569	4.510	0.00	0.00	6
С	LEU	В	ı	-0.166	29.542	8.032	0.00	0.00	6
0	LEU	В	L.	-1.310	29.610	8.492	0.00	0.00	8
N	THR	В	ı	0.730	28.664	8.475	0.00	0.00	7
CA	THR	В	ī	0.426	27.711	9.532	0.00	0.00	6
CB	THR	В	ı	1.631	26.830	9.914	0.00	0.00	6
	THR	В	1	2.757	27,667	10,197	0.00	0.00	8
C	THR	В	1	1.992	25.855	8.809	0.00	0.00	6
C.	THR	В	ı	-0.059	28.425	10.792	0.00	0,00	6
0	THR	В	L	-1.095	28.062	11.350	0.00	0.00	8
N	ILE	В	1	0.684	29.432	11.241	0.00	0.00	7
CA	ILE	В	L	0.294	30.233	12.394	0.00	0,00	6
CB	ILE	В	L.	1.322	31.337	12.704	0.00	0.00	6
C	ILE	B	11	0.901	32,152	13.919	0.00	0.00	6
C	ILE	В	1	2,717	30.744	12.924	0.00	0.00	6
C	ILE	В	1	3.835	31.734	12.670	0.00	0.00	6
C	ILE	B	1	-1.064	30.889	12.164	0.00	0.00	6
0	ILE	В	1	-1.985	30.755	12.966	0.00	0.00	8
N	MET	В	1	-1.198	31.602	11.053	0.00	0.00	7
CA	MET	В	1	-2.421	32,291	10.686	0.00	0.00	6
CB	MET	В	ı	-2.277	32.883	9.277	0.00	0.00	6
С	MET	В	1	-1.466	34.169	9.239	0.00	0.00	6
SD	MET	В	1	-1.371	34.872	7.581	0.00	0.00	ш
CE	MET	В	1	-3,003	35.600	7.440	0.00	0.00	16
C	MET	В	1	-3.674	31,430	10.747	0.00	0.00	6
0	MET	В	ī	4.699	31.904	11.247	0.00	0.00	18
N	TYR	В	L	-3.646	30.208	10.223	0.00	0.00	17
CA	TYR	В	I.	-4.813	29.343	10.220	0.00	0.00	16
CB	TYR	В	1	-4.979	28,707	8.822	0.00	0.00	6
C	TYR	В	1	-5,493	29.747	7.843	0.00	0.00	16
C	TYR	В	l	-4.612	30.494	7.073	0.00	0.00	16
CE	_	В	Π	-5.080	31.452	6.193	0.00	0.00	6
C	TYR	В	Ιī	-6.854	29.990	7.720	0.00	0.00	6
CE	TYR	В	1	-7.326	30.946	6.840	0.00	0.00	6
CZ	TYR	В	Ιî	-6.435	31.673	6.080	0.00	0.00	6
0	TYR	В	1	-6.902	32,625	5.205	0.00	0.00	8
Č_	TYR	В	1	-4.789	28,247	11.272	0.00	0.00	6
ō	TYR	B	Τî	-5.725	27.442	11.334	0.00	0.00	8
N	GLY	В	î	-3.724	28,155	12.060	0.00	0.00	7

CA	GLY	В	1	-3.602	27.108	13.063	0.00		6
<u>c </u>	CLY	В	1.	-3.408	25.731	12.443	0.00	0.00	6
0	GLY	В	1	-3.950	24.744	12.947	0.00	0.00	8
<u>N</u>	LEU	В	1	-2.623	25.649	11.371	0.00	0.00	7
CA	LEU	В	1	-2.343	24.371	10.718	0.00	0.00	6
CB	LEU	В	1	-1.965	24.563	9.253	0.00	0.00	6
<u>c </u>	LEU	В	1	-2.858	25.463	8.399	0.00	0.00	6
<u>C </u>	LEU	В	1	-2.224	25.720	7.038	0.00	0.00	6
<u> </u>	LEU	В	Ц	-4.246	24.864	8.225	0.00	0.00	6
<u> </u>	LEU	В	1	-1.230	23.648	11,474	0.00	0.00	6
0	LEU	В	1	-0.104	24.136	11.573	0.00	0.00	8
N	ARG	В	ı	-1.566	22.508	12.067	0.00	0.00	7
CA	ARG	В	1	-0.631	21.762	12.899	0.00	0.00	6
CB	ARG	В	1	-1.276	21.448	14.255	0.00	0.00	16
C	ARG	В	1	-2.011	22.615	14.892	0.00	0.00	6
c l	ARG	В	ш	-1.894	22.647	16.405	0,00	0.00	6
N	ARG	В	1	-2,138	21.346	17.010	0.00	0.00	7
cz	ARG	В	ı	-1.376	20,762	17.925	0.00	0.00	6
Z	ARG	В	F	-0.282	21.358	18.380	0.00	0.00	7
Z	ARG	В	_	-1,706	19.564	18.391	0.00	0.00	7
C	ARG	В	F	-0.131	20.491	12.228	0.00	0.00	6
0	ARG	В	H	0.615	19.715	12.826	0.00	0.00	8
Z	GLY	В	ı	-0.521	20.281	10.975	0.00	0.00	7
CA	GLY	В	1	-0.085	19.111	10.221	0.00	0.00	6
٦	GLY	В	F	1.312	19.349	9.649	0.00	0.00	6
0	GLY	В	1	1.986	20.324	9.981	0.00	0.00	8
N	PRO	В	1	1.752	18,443	8.780	0.00	0.00	7
C	PRO	В	1	0.981	17.259	8.332	0.00	0.00	6
CA	PRO.	В	1	3.060	18.520	8.166	0.00	0.00	6
CB	PRO	В	1	3.080	17.388	7.154	0.00	0.00	6
Ç_	PRO	B	1	1.910	16.524	7.418	0.00	0.00	6
C_	PRO	В	1	3.326	19.856	7.488	0.00	0.00	6
0	PRO	B	1	2.459	20.415	6.817	0.00	0.00	18
N	SER	B	1	4.550	20.358	7.629	0.00	0.00	17
CA	SER	IB.	1	4.948	21.620	7.023	0.00	0.00	6
CB	SER	B	1	5.030	22,706	8.103	0.00	0.00	6
0_	SER	B	1	5.316	23,967	7.525	0.00	0.00	8
c_	SER	<u> B</u>	1	6.298	21.513	6.329	0.00	0.00	16
0	SER	Į₿.	1	7.318	21.410	7.016	0.00	0.00	8
N	ILE	В	1	6.332	21.523	4.995	0.00	0,00	17
CA	ILE	B	μ	7.607	21,466	4.297	0.00	0.00	6
CB	ILE	В	11	7.940	20.151	3.579	0.00	0,00	6
<u>C</u>	ILE	В	1	8.364	19.067	4.559	0.00	0.00	6
<u>c_</u>	ILE	B	1	6.785	19.678	2.691	0.00	0.00	6
<u>c</u> _	ILE	B	1	7.240	18,715	1.610	0.00	0.00	6
<u>c_</u>	ILE	B.	1	7.707	22,588	3.259	0.00	0.00	6
0	ILE	В	11.	6,736	23.244	2.899	0.00	0.00	8
<u>N</u>	SER	В	11	8.933	22,791	2,791	0.00	0.00	17
CA	SER	B.	1	9.240	23.780	1.776	0.00	0.00	16
CB	SER	В	1	9.758	25,085	2.374	0.00	0.00	6
0	SER	В	1	8.801	25,734	3.183	0.00	0.00	8
Ç_	SER	В	11.	10.302	23,215	0.830	0.00	0.00	6
Q	SER	B.	1	11.438	23,009	1,268	0.00	0.00	8
N	ILE	B	1	9.931	22,967	-0.422	0.00	0.00	7
CA	ILE	B	1	10.914	22,452	-1.379	0.00	0.00	6
CB	ILE	В	1	10.388	21.323	-2.271	0.00	0,00	16
С	ILE	В	1	11.465	20.868	-3.253	0.00	0.00	6
С	TLE	В	1	9.935	20.152	-1.394	0.00	0.00	16
С	ILE	В	l.	9.301	18.996	-2.125	0.00	0.00	16
Ç	ILE	В	1	11.446	23.618	-2.212	0.00	0,00	6
Ò	ILE	В	1	10.696	24.455	-2,710	0.00	0.00	8
N	ALA	В	l	12,768	23,693	-2.305	0.00	0.00	7
ÇA	ALA	В	ī	13,431	24.762	-3.047	0.00	0.00	6
CB		B	li	14.296	25.583	-2.105	0.00	0.00	6

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C_	ALA	В	۴.	14.257	24.163	-4.130	0.00	0.00	6
0	ALA	В	1	15.430	23.831	-4,015	0.00	0.00	8
N.	THR	3	1	10.045	24.005	-5.336	0.00	0.00	7
CA	THR	В	1	14.295	23.435	-6.499	0.00	0.00	6
CB	THR	В	1	13.706	22,064	-6.879	0.00	0.00	6
	THR	В	1	12.282	22.111	-6.725	0.00	0.00	8
	THR	В	ш	14.265	20.963	-5.992	0.00	0.00	6
C	THR	В	1	14.225	24.390	-7.684	0.00	0.00	6
0	THR	В	ı	13.789	24.006	-8,770	0.00	0.00	8
N	ALA	В		14.611	25.645	-7.453	0.00	0.00	7
CA	ALA	В		14.614	26.639	8.530	0.00	0.00	6
СВ	ALA	В	1	15.804	26.381	-9.445	0.00	0.00	6
C	ALA	В	ī	13.303	26.601	-9.297	0.00	0.00	6
0	ALA	В	i	12.228	26.596	-8.690	0.00	0.00	8
N	CYS	В	1	13.347	26.441	-10.615	0.00	0.00	7
CA	CYS	В	1	12.193	26.376	11.482	0.00	0.00	6
CB	CYS	В	1	12.628	26.275	-12.957	0.00	0.00	6
SG		В	ī	14.176	27.109	-13.348	0.00	0.00	ĭ
	CYS		_			11.252		0.00	6
5	CYS	B	ļ.	11.226	25.225		0.00	0.00	8
9	CYS	В	1	10.137	25.253	-11.841			7
N	THR	B	1	11.590	24.199	-10.504	0.00	0.00	6
CA.	THR	B	Ļ	10.719	23.048	10.288	0.00	0.00	_
CB	THR	В	ļ.	11.539	21.749	·10.439	0.00	0.00	6
<u> </u>	THR	B	1	12.396	21.886	·11.585	0.00	0.00	8
C	THR	B	1	10.650	20.535	-10.627	0.00	0.00	6
C_	THR	<u>B</u>	1_	10.032	23.098	-8.938	0.00	0.00	6
0	THR	B	L_	9.161	22.283	-8.628	0.00	0.00	8
<u> </u>	SER	B	1	10.337	24.113	-8.140	0.00	0.00	7
CA	SER	В	1	9.812	24.266	-6.795	0.00	0.00	6
CB	SER	B	LL.	10.152	25.653	-6.239	0.00	0.00	6
0	SER	В	LL.	11.536	25.806	-6.014	0.00	0.00	8
С	SER	В	1	8.307	24.060	-6.707	0.00	0.00	6
0	SER	В	1	7.817	23,238	-5.928	0.00	0.00	8
N	GLY	В	1	7.553	24.825	-7.490	0.00	0.00	7
CA	GLY	В	ı	6.101	24.743	-7.493	0.00	0,00	6
C	GLY	В	1	5.595	23.335	-7.766	0.00	0.00	6
0	GLY	В	l	4.639	22.887	-7,132	0.00	0.00	8
N	VAL	В	1	6.179	22.652	-8.744	0.00	0.00	7
CA	VAL	В	1	5.760	21.301	-9.104	0.00	0.00	6
СВ	VAL	В	1	6.323	20.917	-10.485	0.00	0.00	6
C	VAL	В	1	6.367	19.415	-10.713	0.00	0.00	6
C	VAL	В	1	5.496	21.585	11.579	0.00	0.00	6
c	VAL	В	ī	6.160	20.281	-8.048	0.00	0.00	6
ŏ	VAL	В	î	5.406	19.338	-7.792	0.00	0.00	8
N	HIS	В	ì	7.331	20.442	7.442	0.00	0.00	7
CA	HIS	В	ì	7.801	19.513	6.424	0.00	0.00	6
CB	HIS	В	1	9.283	19.738	-6.120	0.00	0.00	6
_	HIS	В	î	10.227	19.073	-7.06 9	0.00	0.00	6
C C		В	+	10.065	18.056	-7.947	0.00	0.00	6
	HIS	_	_					0.00	7
N	HIS	B	1	11.548	19.464	-7.180	0.00	0.00	6
CE	HIS	<u>B</u>	1	12.149	18.717	-8.085	0.00		
N	HIS	<u>B</u>	1	11,273	17.856	-8.571	0.00	0.00	7
<u></u>	HIS	В	1	6.988	19.628	-5.138	0.00	0.00	6
0	HIS	В	1	6.696	18.622	-4.489	0.00	0,00	8
N	ASN	В	1	6.653	20.858	-4. 760	0.00	0.00	7
CA	ASN	В	LL.	5.874	21,100	-3.551	0.00	0.00	6
CB	ASN	В	1	5.824	22,595	-3.249	0.00	0.00	6
С	ASN	В	1	7.045	23.130	-2,535	0.00	0.00	6
0	ASN	В	ı	7.850	23.876	-3.102	0.00	0.00	8
N	ASN	В	ī	7.210	22,772	1.268	0.00	0.00	7.
С	ASN	В	1	4.472	20.516	-3.684	0.00	0.00	6
0	ASN	В	ı	4.023	19.748	-2.832	0.00	0.00	8
N	ILE	В	1	3,796	20.808	4.791	0.00	0.00	7
CA	ΠE	В	î	2.461	20.283	-5.057	0.00	0.00	6

СВ	ILE	В	1	1.889	20.822	-6.382	0.00	0.00	6
С	ILE	В	L.	0.616	20.091	-6.787	0.00	0.00	6
U	ILE	В	1	1.623		-6.258	0.00	0.00	6
C	ILE	В	1	1.353	23.023	-7.570	0.00	0.00	6
С	ILE	В		2.446	18.758	-5.061	0.00	0.00	6
0	ILE	В	1	1.580	18.154	-4.427	0.00	0.00	8
N	GLY	В	1	3.384	18.133	-5.762	0.00	0.00	7
CA	GLY	В	1	3.472	16.684	-5.812	0.00	0.00	6
С	GLY	В	1	3.809	16.032	-4.479	0.00	0.00	6
0	GLY	В	1	3.271	14.959	-4.179	0.00	0.00	8
N	HIS	В	1	4.669	16.644	-3.659	0.00	0.00	7
CA	HIS	В	1	5.026	16.030	-2.374	0.00	0.00	6
CB	HIS	B	1	6.437	16.407	-1.924	0.00	0.00	6
c	HIS	B	1	7.414	15.486	-2.612	0.00	0.00	6
Ç	HIS	B	L.	7.712	14.188	-2.381	0.00	0.00	6
N	HIS	В	1	8.157	15.865	-3.705	0.00	0.00	7
CE	HIS	В	1	8.893	14.846	4.108	0.00	0.00	6
N	HIS	B	1	8.641	13.816	-3.321	0.00	0.00	7
C	HIS	В	1	3.927	16.250	-1.352	0.00	0.00	6
0	HIS	В	1	3.717	15.434	-0.451	0.00	0.00	8
N	ALA	В	1	3.120	17.291	-1.551	0.00	0.00	7
CA.	ALA	В	1	1.950	17.523	-0.711	0.00	0.00	6
CB	ALA	B	1	1.309	18.858	-1.039	0.00	0.00	6
Č	ALA	B	1	0.957	16.381	-0.957	0,00	0.00	6
0	ALA	B	1	0.366	15.835	-0.027	0.00	0.00	8
N	ALA	<u>B</u>	1	0.830	15.965	-2.216	0.00	0.00	7
CA	ALA	B	1	-0.014	14.846	-2.605	0.00	0.00	6
CB	ALA	B	1	-0.214	14.809	4.111	0.00	0.00	6
<u>ç</u> _	ALA.	B	1	0.554	13.522	-2,103	0.00	0.00	6
0	ALA	용	1	-0.207	12.678	-1.626	0.00	0,00	8 7
N CA	ARG	B	1	1.874	13.351	-2.173		0.00	6
	ARG	В	1	2.492 3.989	12.133 12.067	-1.648 -1.913	0.00	0.00	6
CB	ARG	В	1	4,401	11.956	-3.365	0.00	0.00	6
C	ARG	В	î	4.151	10.572	-3.365	0.00	0.00	6
Z	ARG	В	1	4.957	10.308	-5.126	0.00	0.00	7
CZ	ARG	В	1	4.522	10.309	-6.379	0.00	0.00	6
N	ARG	В	ì	3.249	10.571	-6.653	0.00	0.00	7
N	ARG	В	1	5.356	10.051	-7.383	0.00	0.00	7
Ĉ.	ARG	В	î	2.214	12.059	-0.146	0.00	0.00	6
ŏ	ARG	В	1	1,649	11.071	0.322	0.00	0.00	8
N_	ILE	В	1	2.447	13,162	0.571	0.00	0.00	7
CA	ILE	В	î	2.099	13.235	1.987	0.00	0.00	6
CB	ILE	В	î	2.372	14.616	2.602	0.00	0.00	6
C	ILE	В	î	1.809	14.724	4.014	0.00	0.00	6
c	ILE	В	ī	3.875	14.919	2.636	0.00	0.00	6
c	ILE	В	ı	4.196	16.360	2.989	0.00	0.00	6
С	ILE	В	ī	0.643	12.838	2.206	0.00	0.00	6
0	ILE	В	1	0.373	11.945	3.013	0.00	0.00	8
N	ILE	В	1	-0.292	13,468	1.498	0.00	0.00	7
CA	ILE	В	ı	-1.708	13.143	1.645	0.00	0.00	6
СВ	ILE	В	1	-2.595	14.047	0.770	0.00	0.00	6
C	ILE	В	1	4.000	13.490	0.605	0.00	0.00	6
o	ILE	В	1	-2.638	15.440	1.408	0.00	0.00	6
U	ILE	В	1	-3.382	16,479	0.614	0.00	0.00	6
С	ILE	В	1	-1.995	11.678	1.362	0.00	0.00	6
0	ILE	В	1	-2.629	11.012	2.183	0.00	0.00	8
N	ALA	В	ı	-1.469	11.137	0.271	0.00	0.00	7
ÇA	ALA	В	1	-1.659	9.743	-0.091	0.00	0.00	6
CB	ALA	В	ī	-1.078	9.497	-1.479	0.00	0.00	6
C	ALA	В	1	-1.059	8.761	0.908	0.00	0.00	6
0	ALA	В	ī	-1.522	7,620	1,009	0.00	0.00	8
N	TYR	В	1	-0.031	9.162	1.642	0.00	0.00	7
CA	TYR	В	1	0.606	8 329	2 645	0.00	0.00	6

		- 1	. 1	0.014	8.854	2.943	0.00	0.00	6
	TYR	<u>В</u>	늰	2.014 2.850	7.925	3.794	0.00	0.00	6
<u>c</u>	TYR	ᆲ	$\frac{1}{1}$	3.636	6.939	3.212	0.00	0.00	6
<u>C </u>	TYR	ᆲ	1	4.401	6.086	3.986	0.00	0.00	6
CE	TYR TYR	В	$\frac{1}{1}$	2.852	8.034	5.177	0.00	0.00	6
C	TYR	B	îΪ	3.610	7.186	5.958	0.00	0.00	6
CE		В	î	4.384	6.216	5.358	0.00	0.00	6
CZ O	TYR TYR	В	ì	5.142	5.374	6.138	0.00	0.00	8
C	TYR	В	1	-0.198	8.250	3.937	0.00	0.00	6
ö	TYR	B	1	-0.104	7.256	4.662	0.00	0.00	8
N	GLY	В	1	-0.963	9.293	4.248	0.00	0.00	7
CA	GLY	В	î	-1.773	9.308	5.455	0.00	0.00	6
c	GLY	В	ì	-1.314	10.320	6.490	0.00	0.00	6
ŏ	GLY	В	ì	1.960	10.471	7.533	0.00	0.00	8
N	ASP	В	i	-0.278	11.098	6.180	0.00	0.00	7
CA	ASP	В	ì	0.254	12.078	7.116	0.00	0,00	6
CB	ASP	В	ì	1.692	12.465	6.736	0.00	0.00	6
C	ASP	В	ì	2.678	11.416	7.227	0,00	0.00	6
ŏ	ASP	В	1	3.710	11,204	6.560	0.00	0.00	8
ŏ	ASP	В	ī	2.400	10.811	8.284	0.00	0.00	8
Č	ASP	В	1	-0.599	13.330	7.234	0.00	0.00	6
ŏ	ASP_	В	1	-0.518	14.047	8.234	0.00	0.00	8
N	ALA	В	ī	-1.408	13.603	6.218	0.00	0.00	17
CA	ALA	В	1	-2.282	14.768	6.227	0.00	0.00	6
CB	ALA	В	L	-1.545	15.978	5.671	0.00	0.00	6
C	ALA	В	l	-3.538	14.484	5.410	0.00	0.00	6
0	ALA	В	l	-3.555	13.544	4.613	0.00	0.00	8
N_	ASP	В	1	-4.573	15.288	5.622	0.00	0.00	7
CA	ASP	В	11	-5.808	15,128	4.857	0.00	0.00	6
CB	ASP	В	1	-7,045	15.068	5.746	0.00	0.00	6
C	ASP	B	1	-7.073	13.809	6.598	0.00	0.00	8
0	ASP	В	1	-7.526	13.894	7.758	0.00	0.00	8
0	ASP	Į₿.	μ.	-6.629	12,750	6.106	0.00	0.00	6
C	ASP	ĮB.	11	-5.893	16.279	3.854	0.00	0.00	8
0	IASP.	B	11	-6.203	16.091	2.684	0.00	0.00	7
N	VAL	B	!!	-5.540	17.471	4.321	0.00	0.00	6
CA	VAL	<u>₽</u>	H	-5.493	18.672 19.763	3.508 4.011	0.00	0.00	6
CB		<u>B</u>	4	-6.459	20.998	3.114	0.00	0.00	6
<u> </u> C	VAL	B	 	-6,406	19.274	4.108	0.00	0.00	16
C	VAL	B	1	-7.895 -4.086	19.272	3.518	0.00	0.00	6
ļģ.	VAL	B	+	-3.427	19.305	4.555	0.00	0.00	8
lõ.	VAL	В	ti	-3.639	19.782	2.378	0.00	0.00	7
N	MET	В	h	-2.378	20.493		0.00	0.00	6
CA		$\overline{}$	†ì	-1.271	19.658		0.00	0.00	6
_		_	lî	-0.765	18.428	$\overline{}$	0.00	0.00	6
SD	MET		1	-0.019	18.748		0.00	0.00	\Box
CE		_	Τi	1.695	18.988		T _{0.00}	0.00	6
C	MET		Τì	1-2.549	21.748		0.00	0.00	6
lö	MET		Τî	-3.075	21.667		0.00	0.00	8
N	VAL	1 B	+	-2.077	22.884		0.00	0.00	7
CA		B	T;	-1.916	24.084		0.00	0.00	16
CE		_	Τì	-1.928	25.394		0.00	0,00	6
C	VAL	В		-2.270	26.574	-	0.00		6
Č	VAL	B		-2.894	25.339		0.00	0.00	- 6
Č	VAL	В	_	-0.548	23.935		0.00		6
ŏ	VAL	B	_	0.440	23.733		0.00		18
N	ALA	В	_	-0.490	23.976		0.00	0.00	17
C/	_	TB	_	0.781	23.809		0.00		6
CI		B	_	0.861	22,430		0.00	0.00	6
C	ALA		_		24.883		0.00		6
. 0	ALA				25.47		0.00		8
N	GLY				25.11	5 -3.037	0.00		17
Ĉ.					26.10		0.00	0.00	6
يب									

С	GLY	В	1	3.936	26.714	-3.879		0.00	6
0_	GLY	В	1	4,803	26.194	-3.181	0.00	0.00	8
N	GLY	В	1	4.122	27.849	-4.543	0.00	0.00	_
<u>CA</u>	GLY	<u>B</u>	1	5.387	28.564	<u>-4.497</u>	0.00	0.00	6
<u>č</u> _	GLY	В	1	5.124	30.062	-4.611 -5.026	0.00	0.00	8
<u>0</u>	GLY	В	1	4.054	30.504	-5.026 -4.211	0.00	0.00	7
N.	ALA	В	1	6.124	30.827		0.00	0.00	6
CA	ALA	В	۲	6.071	32.279	-4.285 -3.001	0.00	0.00	6
CB	ALA	<u>B</u>	1	5.563	32.894		0.00	0.00	6
Ç.	ALA	В	1	7.484	32.761	4.618		0.00	8
0_	ALA	В	ļ.	8.460	32.155	-4.182 5.439	0.00	0.00	7
N_	GLU	B	1	7.573	33.801	-5.429	0.00	0.00	6
CA	GLU	B	1	8.863	34.352	-5.816 -7.049	0.00	0.00	6
CB		B	+	9.419	33.641	-7.291	0.00	0.00	6
č-	GLU	₽.	1	10.909	33.815	-6.598	0.00	0.00	6
Ç.	GLU	B	1	11.720	32.733 31.534	-6.865	0,00	0.00	8
0	GLU	B	1	11.478		-5.773	0.00	0.00	8
0	GLU	B	1	12.584	33.086	-6.094	0.00	0.00	6
C	GLU	흥	1	8.715	35.844 36.320	-6.521	0.00	0.00	8
유	GLU	B	1	7,669	36.575	-5.833	0.00	0.00	7
N.	LYS	B	1	9.780	37.996	-6.134	0.00	0.00	6
CA CA	LYS	봄	1	9.876 9.192	38.894	-5.117	0.00	0.00	6
CB		용	1	8.697	40.210	-5.704	0.00	0.00	6
Ĕ	LYS	B	1	9.810	41.247	-5.749	0.00	0.00	6
C	LYS	B	1	9.256	42.620	-6.102	0.00	0.00	6
CE		B	1	10.128	43,319	-7.087	0.00	0.00	7
NZ C	LYS	В	i	11.374	38.293	-6.252	0.00	0.00	6
0	LYS	B	1	12,016	38.792	-5.335	0.00	0.00	8
N	ALA	B	1	11.923	37.858	-7.380	0.00	0.00	7
CA	ALA	В	11	13.346	37.965	-7.651	0.00	0.00	6
CB		B	1	13.896	36.631	-8.145	0.00	0.00	6
c	ALA	B	1	13.661	39.069	-8.643	0.00	0.00	6
Ö	ALA	B	Τî	14.767	39,112	-9.197	0.00	0.00	8
N	SER	В	lì	12,736	40.004	-8.842	0.00	0.00	7
CA	SER	В	lî	12.999	41.133	-9.733	0.00	0.00	6
CE		В	li.	11.735	41,630	-10.425	0.00	0.00	16
0	SER	B	li	10.719	41.919	-9.481	0.00	0.00	18
Č	SER	В	Ti	13.658	42,240	-8.915	0,00	0.00	6
ō	SER	В	1	13.077	43.275	-8.617	0.00	0.00	8
N	THR	В	li	14.886	41,997	-8.475	0.00		17
C.A		B	Ιī	15.688	42.920	-7.696	0.00	0.00	6
CE		B	1	16.006	42.438		0.00		6
ō	THR		\Box_1	16.969	41,373	-6.337	0.00		8
C	THR	ΙB	Ţ,	14,779	41.964	5.510	0.00	_	16
C	THR	ΙВ	l	17.014	43,108		0.00		16
0	THR		1	17.372	42.301	-9.293	0.00		8
N	PRO			17.782	44.116		0.00		7
C	PRO		I	17.422	45.113		0.00		16
C/	PRO	В	П	19.086	44.378		0.00		6
CI		В	П	19.700	45.388		0.00		6
Ç	PRO	В		18.531	46.126		0.00		6
C	PRO			19.957	43.142		0.00		6
O	PRO		П	20.533	42.868		0.00		8
N	LEU	E	1	20.070	42.357		0.00		17
C	ALEU		Ū	20.840	41.126		0.00		16
C			Ш	20.982	40.641		0.00		16
C	LEU				40.023		0.00		- 6
C	LEU			23.505	40.843		0.00		6
C	LEU		Ш	22.319	39.852		0.00		6
C	LEU		Ш	20.204	40.037		0.00		6
ō	LEU		ıΠ	20.902			0.00		8
N		_	_	18.875	40.01		0.00		17
1	A GLA					9.342	10.00	1 0.00	<u> 6</u>

С	GLY	В	1	18.231	39.294	-10.841	0.00	0.00	6
0	CLY	В	ı	18.482	38.368	-11.616	0.00	0.00	8
N	VAL	В	ī	18.012	40.540	-11.257	0.00	0.00	7
CA	VAL	В	ī	18.114	40.877	-12.680	0.00	0.00	6
		В	ì	17.522	42.254	-13.000	0.00	0.00	6
CB	VAL	$\overline{}$	_			-14.492	0.00	0.00	6
<u>c</u>	VAL	В	1	17.585	42.548				
C	VAL	В	ı_	16.080	42.340	-12.516	0.00	0.00	6
С	VAL	В	1	19.580	40.788	-13.100	0.00	0.00	6
0	VAL	В	1	19.934	40.087	-14.046	0.00	0.00	8
N	GLY	В	2	20.452	41.426	-12.326	0.00	0.00	7
CA	GLY	В	2	21.880	41.395	-12.580	0.00	0.00	6
		В	2	22.468	39.993	-12.607	0.00	0.00	6
<u></u>	GLY						0.00	0.00	8
0	GLY	В	2	23.247	39.675	·13.505			7
N	GLY	В	2	22.151	39.157	-11.627	0.00	0.00	_
CA	GLY	В	2	22.680	37.817	-11.495	0.00	0.00	6
С	GLY	В	2	22.380	36.909	-12.672	0.00	0.00	6
0 .	GLY	В	2	23.254	36.212	-13.187	0.00	0.00	18
	PHE	В	2	21.128	36.914	-13.116	0.00	0.00	7
N						-14.269	0:00	0.00	6
CA	PHE	<u>B</u>	2	20,705	36,129				6
CB	PHE	B	2	19,188	35.986	-14.314	0.00	0.00	
l C	PHE	B	2	18.629	34.898	-13.445	0.00	0.00	6
C	PHE	В	2	17.786	35.206	-12.390	0.00	0.00	6
C	PHE	В	2	18.935	33.568	-13.683	0.00	0.00	6
CE	PHE	В	2	17.263	34.211	-11.585	0.00	0.00	6
		В	2	18.415	32.567	-12.885	0.00	0.00	6
CE	PHE	_					0.00	0.00	6
CZ.	PHE	IB.	2	17.576	32.892	-11.835			6
_عا	PHE	В	2	21.222	36.822	15.531	0.00	0.00	_
Q_	PHE	В	2	21.633	36.184	-16.493	0.00	0.00	8
N	GLY	В	2	21,309	38.148	-15.481	0.00	0.00	17
CA	GLY	В	2	21.920	38,965	-16.513	0.00	0.00	6
	GLY	B	2	23.391	38,623	-16.716	0.00	0.00	6
<u>ç</u>				23.875	38.526	-17.845	0.00	0.00	8
<u>o</u>	GLY	B	2				0.00	0.00	7
N	I ALA	B	13	24.114	38,396	-15.625		_	6
CA	ALA	Į₿.	2	25.522	38.052	-15,617	0.00	0.00	_
CB	ALA	B	2	26.053	38.085	-14.186	0.00	0.00	6
C.	ALA	B_	2	25.826	36.697	-16.238	0.00	0.00	16
0	ALA	В	2	26,920	36.477	16,760	0.00	0.00	18
N	ALA	В	2	24.863	35,783	-16.211	0.00	0.00	17
	ALA	В	2	24.986	34.472	-16.825	0.00	0.00	6
CA			2	24,191	33,446	-16.026	0.00	0.00	6
CB	ALA	B					0.00	0.00	6
C	ALA	<u>↓₿</u>	2	24.497	34.494	-18.270			8
0	ALA	ĮB.	2	24.478	33,476	-18.963	0.00	0.00	
N	ARG	<u> B</u>	2	24.004	35.644	-18.722	0.00	0.00	17
CA	ARG	В	2	23.499	35.835	-20.070	0.00	0.00	16
CB	ARG	В	2	24,620	35,601	-21,090	0.00	0.00	16
Ċ	ARG	В	2	25,718	36.653	-21,079	0.00	0.00	6
		_	2	26.575	36.597	-22.337	0.00	0.00	6
C.	ARG	<u>B</u>	_	_			0.00	0.00	7
N	ARG	<u>B</u>	2	25.762	36.371	-23.526			6
CZ	ARG	<u> B</u>	12	25.831	35,321	-24.333	0.00	0.00	
N	ARG	В	2	25.011	35.258	-25.377	0,00	0.00	7
N	ARG	В	2	26.699	34.341	-24.113	0.00	0.00	7
Ċ	ARG	В	2	22.308	34.934	-20.376	0.00	0.00	6
_	ARG	В	2	22.108	34.513	-21.515	0.00	0.00	8
18					34.698	-19.386	0.00	0.00	7
N	ALA	B	12	21.458			0.00	0.00	6
CA	ALA	Į₿	12	20,327	33,792	-19.508			6
CB	ALA	<u> B</u>	12	20.175	33.000	-18.211	0.00	0.00	_
C	ALA	В	2	19.029	34.535	19.798	0.00		6
ō	ALA	В	2	18.018	33.936	-20.149	0.00	0.00	8_
N	LEU	B	12	19.068	35.847	-19.625	0.00	0.00	7
		7		_	36.706		0.00		6
CA	LEU	_	12	17.911				T	6
CE		_	2	17.986	37.834		0.00		
C	LEU	B	12	17.015	37.916		0.00		16
C	LEU	В	12	16,630	36.561	-17.050	0.00		6
C	LEU		2	17.615	38,786	-16.505	0.00	0.00	16

O LEU B 2 18.968 37.677 -21.784 0.00 0.00 B N SER B 2 16.623 37.549 12.1687 0.00 0.00 0 0 CA SER B 2 14.966 38.166 -23.409 0.00 0.00 6 CSER B 2 14.966 38.166 -23.409 0.00 0.00 0 6 CSER B 2 16.826 39.705 -22.784 0.00 0.00 0 6 CSER B 2 16.722 40.242 -21.680 0.00 0.00 0								1		
SER B 2 16.623 37.549 21.687 0.00 0.00 7 CA SER B 2 16.421 38.239 22.955 0.00 0.00 6 CB SER B 2 14.966 38.166 23.409 0.00 0.00 6 SER B 2 14.696 39.185 -24.358 0.00 0.00 6 SER B 2 14.696 39.185 -24.358 0.00 0.00 6 SER B 2 16.826 39.705 22.784 0.00 0.00 0.00 6 SER B 2 16.722 40.242 -21.680 0.00 0.00 8 N THR B 2 17.273 40.344 33.859 0.00 0.00 8 N THR B 2 17.273 40.344 33.859 0.00 0.00 6 CB THR B 2 17.273 40.344 33.859 0.00 0.00 6 CB THR B 2 19.280 41.759 23.962 0.00 0.00 6 CB THR B 2 19.889 43.137 24.035 0.00 0.00 6 C THR B 2 19.889 43.137 24.035 0.00 0.00 6 C THR B 2 15.782 42.175 25.133 0.00 0.00 6 C THR B 2 15.782 42.175 25.133 0.00 0.00 7 CA ARG B 2 13.923 41.934 26.051 0.00 0.00 6 C ARG B 2 13.305 42.435 -27.985 0.00 0.00 6 C ARG B 2 13.305 42.435 -27.985 0.00 0.00 6 C ARG B 2 13.523 41.938 26.690 0.00 0.00 6 C ARG B 2 13.523 41.938 26.690 0.00 0.00 6 C ARG B 2 13.523 39.451 -29.599 0.00 0.00 6 C ARG B 2 13.523 39.451 -29.599 0.00 0.00 6 C ARG B 2 13.642 38.939 28.179 0.00 0.00 6 C ARG B 2 13.642 38.939 28.179 0.00 0.00 6 C ARG B 2 14.395 44.087 25.437 0.00 0.00 6 C ARG B 2 14.395 44.087 25.437 0.00 0.00 6 C ARG B 2 14.433 38.950 30.433 0.00 0.00 6 C ARG B 2 14.439 46.315 24.394 0.00 0.00 6 C ARG B 2 14.435 44.087 25.437 0.00 0.00 6 C ARG B 2 14.439 46.315 24.394 0.00 0.00 6 C ARG B 2 14.439 46.345 22.394 0.00 0.00 6 C ARG B 2 14.439 46.345 22.394 0.00 0.00 6 C ARG B 2 14.439 4		LEU	В	2	17.844	37.339	-21.197	0.00	0.00	6
CA SER B 2 16.421 38.239 2.2955 0.00 0.00 6 CB SER B 2 14.966 38.166 23.409 0.00 0.00 6 CSER B 2 14.690 39.185 24.358 0.00 0.00 8 CSER B 2 16.826 39.705 22.784 0.00 0.00 6 CSER B 2 16.722 40.242 21.680 0.00 0.00 6 CSER B 2 16.723 40.344 23.859 0.00 0.00 0.00 6 CSER B 2 17.738 41.737 23.762 0.00 0.00 7 CA THR B 2 17.738 41.737 23.762 0.00 0.00 6 CTHR B 2 19.868 41.092 22.832 0.00 0.00 6 CTHR B 2 19.889 43.137 24.035 0.00 0.00 6 CTHR B 2 17.889 43.137 24.035 0.00 0.00 6 CTHR B 2 17.889 43.137 24.035 0.00 0.00 6 CTHR B 2 17.889 43.137 24.035 0.00 0.00 6 CTHR B 2 17.889 43.137 24.035 0.00 0.00 6 CTHR B 2 17.889 43.137 24.035 0.00 0.00 6 CTHR B 2 13.389 43.137 24.035 0.00 0.00 6 CTHR B 2 13.389 43.137 24.935 0.00 0.00 6 CTHR B 2 13.389 43.137 24.935 0.00 0.00 6 CTHR B 2 14.924 42.914 26.051 0.00 0.00 6 CARG B 2 13.923 41.938 26.690 0.00 0.00 6 CARG B 2 13.923 41.938 26.690 0.00 0.00 6 CARG B 2 13.923 41.938 26.690 0.00 0.00 6 CARG B 2 13.523 39.451 23.939 0.00 0.00 6 CARG B 2 13.523 39.451 23.939 0.00 0.00 6 CARG B 2 13.523 39.451 23.939 0.00 0.00 6 CARG B 2 14.934 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.593 0.00 0.00 6 CARG B 2 14.936 44.00 25.333 0.00 0.00 7 CAARG B 2 14.95 44.00 25.233 0.00 0.00 7 CAARG B 2 14.95 44.00 25.232 0.00 0.00 7 CAARG B 2 14.95 44.00 25.232 0.00 0.00 6 CASN B 2 14.95 44.00 25.333 0.00 0.00 6 CASN B 2 14.95 44.00 25.333 0.00 0.00 6 CASN B 2 14.95 44.00 25.333 0.00 0.00 6 CASN B 2 14.95 44.00 25.333 0.00 0.00 6 CASN B 2 14.95 44.00 25.333 0.00 0.00 6 CASN B 2 15.257 46.486 22.732 0.00 0.00 6 CASN B 2 15.257 46.486 22.732 0.00 0.00 6 CASN B 2 15.259 46.20 22.00 0.00 0.00 6 CASN B 2 15.458 47.77 22.858 0.00 0.00 0.00 6 CASN B 2 15.599 46.299 25.500 0.00 0.00 6 CASN B 2 15.458 44.06 25.333 0.00 0.00 0.00 6 CASN B 2 13.641 47.77 26.622 0.00 0.00 0.00 6 CASN B 2 13.481 47.77 22.6522 0.00 0.00 0.00 6 CASN B 2 13.481 47.47 22	_									
CB SER B 2 14.966 38.166 23.409 0.00 0.00 6 O SER B 2 16.690 39.185 24.358 0.00 0.00 8 C SER B 2 16.826 39.705 22.784 0.00 0.00 8 O SER B 2 16.722 40.242 21.680 0.00 0.00 8 N THR B 2 17.273 40.344 23.859 0.00 0.00 6 O SER B 2 17.273 40.344 23.859 0.00 0.00 6 O SER B 2 17.273 40.344 23.859 0.00 0.00 6 O THR B 2 17.288 41.737 -23.762 0.00 0.00 6 O THR B 2 19.868 41.092 22.832 0.00 0.00 6 C THR B 2 19.868 41.092 22.832 0.00 0.00 6 C THR B 2 19.868 41.092 22.832 0.00 0.00 8 O THR B 2 19.868 41.092 22.832 0.00 0.00 8 O THR B 2 15.696 42.651 24.708 0.00 0.00 6 O THR B 2 15.696 42.651 24.708 0.00 0.00 6 O THR B 2 15.782 42.175 25.133 0.00 0.00 6 O THR B 2 15.896 42.2551 24.973 0.00 0.00 6 O THR B 2 13.923 41.938 -26.690 0.00 0.00 6 O THR B 2 13.923 41.938 -26.690 0.00 0.00 6 O THR B 2 13.923 41.938 -26.690 0.00 0.00 6 C ARG B 2 13.923 41.938 -26.690 0.00 0.00 6 C ARG B 2 13.923 41.938 -26.690 0.00 0.00 6 C ARG B 2 13.523 39.451 29.399 0.00 0.00 6 C ARG B 2 13.523 39.451 29.399 0.00 0.00 6 C ARG B 2 14.030 38.790 30.433 0.00 0.00 7 C ARG B 2 14.030 38.790 30.433 0.00 0.00 7 C ARG B 2 14.395 44.087 25.417 0.00 0.00 6 O ARG B 2 14.395 44.087 25.417 0.00 0.00 6 C ARG B 2 14.395 44.087 25.417 0.00 0.00 6 C ARG B 2 14.395 44.087 25.417 0.00 0.00 6 C ARG B 2 14.395 44.087 25.417 0.00 0.00 6 C ARG B 2 14.396 45.040 25.232 0.00 0.00 7 C ARG B 2 14.936 44.087 25.417 0.00 0.00 6 C ARG B 2 14.936 44.087 25.417 0.00 0.00 6 C ARG B 2 14.936 44.087 25.417 0.00 0.00 6 C ARG B 2 14.936 44.087 25.417 0.00 0.00 6 C ARG B 2 14.936 44.087 25.417 0.00 0.00 6 C ASN B 2 14.896 45.410 25.233 0.00 0.00 0.00 6 C ASN B 2 14.896 45.40 25.235 0.00 0.00 0.00 6 C ASN B 2 15.448 47.195 22.397 0.00 0.00 6 C ASN B 2 15.448 47.195 22.397 0.00 0.00 6 C ASN B 2 15.448 47.195 22.397 0.00 0.00 6 C ASN B 2 13.641 47.077 26.6522 0.00 0.00 0.00 6 C ASN B 2 13.643 47.476 24.831 0.00 0.00 0.00 6 C ASN B 2 13.644 47.776 25.833 0.00 0.00 0.00 6 C ASN B 2 13.648 47.795 24.8470 0.00 0.00 6 C ASN B 2 13.641 47.077 26.6522 0.00 0.00 0.00 6 C ASN B 2 13.481 47.176 22.3										
O SER B 2 14.690 39.185 -24.358 0.00 0.00 B C SER B 2 16.826 39.705 -22.784 0.00 0.00 0.00 0.00 8 O SER B 2 16.826 39.705 -22.1832 0.00 0.00 0.00 8 C SER B 2 17.273 40.344 -23.855 0.00 0.00 6 CB THR B 2 19.280 41.759 -23.962 0.00 0.00 6 CB THR B 2 19.889 43.137 -24.035 0.00 0.00 6 C THR B 2 15.862 42.175 -25.133 0.00 0.00 0.00 6 C THR B 2 14.924 42.914 26.913 0.00 0.00 6 C ARG B 2	_							_		
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Name		ASP	В	2	10.484	48.269	-27.634			
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O GLN B 2 5.374 45.778 -24.642 0.00 0.00 8	C	LGLN								6
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	0	GLN	↓B						_	8_
AT I MARK I TO I WIND I THE TO I WAS A STATE OF THE PARTY	N	GLN		12	3.324	46.029	1 -23.745	10.00	1 0.00	17

		_ 1	- 1			25 225 1	0.00	0.00	
	GLN	B	2	6.387	41.211	-25.635	0.00		6
<u> </u>	CLN	В	2	V.VQ= -	TU.ZUA	25,739	0.00		3 7
N	إحملم	<u>B</u>	2	7.407	41.356	-26.466	0.00	0.00	—
CAL	احد	8	2	7.686	40.389	·27.521	0.00	0.00	6
CB	ALA I	<u>B 1</u>	2	7.796	41.094	-28.865	0.00	0.00	6
c I	ALA	В	2	8.973	39,631	-27.213	0.00	0.00	6
o i	ALA	В	2	9.383	38,727	-27.940	0.00	0.00	8
N	ALA	В	2	9,608	40,009	-26,111	0.00	0.00	7
			2	10.855	39.404	-25.669	0.00	0.00	6
CV	ALA	B					0.00	0.00	6
CB	ALA	В	2	11.386	40.154	-24.455			_
<u>C</u>	ALA	В	2	10.695	37.924	-25.350	0.00	0.00	6
0_	ALA	B	2	11,503	37.104	·25.790	0.00	0.00	8
N	SER	B	2	9.673	37,586	-24.574	0.00	0.00	7
CA	SER	В	2	9.427	36.187	-24.222	0.00	0.00	6
СВ	SER	В	2	8.587	36.099	-22,951	0.00	0,00	6
ŏ		В	2	8.334	34.748	-22.607	0.00	0.00	8
	SER		_			-25.402	0.00	0.00	6
우	SER	В	2	8.745	35.507		_	0.00	8
0	SER	В	2	7.552	35.705	-25.621	0.00		7
$N \perp$	ARG	В	2	9.501	34.722	26.158	0.00	0.00	
CA	ARG	В	2	8.972	34.053	-27.343	0.00	0.00	6
CB	ARG	В	2	9.340	34.866	-28.594	0.00	0.00	6
c	ARG	В	2	10.801	35.257	-28.718	0.00	0.00	6
č	ARG	В	2	11.144	35.811	-30.100	0.00	0.00	6
		В	2	10.476	37,079	-30.337	0.00	0.00	7
N	ARG	_	_			-31.248	0.00	0.00	6
CZ	ARG	В	2	9.563	37.369	_	0.00	0.00	7
N	ARC	В	2	9.137	36.474	-32.126	_	_	7
N	ARG	В	2	9.058	38.597	-31,292	0,00	0.00	
C	ARG	<u>B</u>	2	9.485	32,628	-27.476	0.00	0.00	6
0	ARG	В	2	10.377	32.329	-28.273	0.00	0.00	8
Z	PRO	В	2	8.936	31.727	-26.668	0.00	0.00	7
C	PRO	В	2	7.864	31.972	-25.680	0.00	0.00	16
		В	2	9.371	30.345	-26,663	0.00	0.00	6
CA.	PRO	_			29.672	-25.563	0.00	0.00	6
CB	PRO	Į₿.	2	8.570		25.235	0.00	0.00	6
C	PRO	Į₿.	2	7.458	30.597				6
<u>C</u> _	PRO	B	2	9.175	29.678	-28.008	0.00	0.00	_
Q.	PRO	B	2	8.131	29,769	28.647	0.00	0.00	18
N_	TRP	B	2	10.216	28.997	-28,471	0.00	0.00	17
CA	TRP	В	2	10.261	28.253	.29.712	0,00	0.00	16
CB	TRP	В	2	9.073	27.293	-29.803	0.00	0.00	16
c	TRP	В	2	9.118	26.167	-28.812	0.00	0.00	6
č	TRP	В	2	8,168	25.926	-27.765	0.00	0.00	6
-		В		8.589	24.772	-27.079	0.00	0.00	6
CE	TRP	_	12				0.00	0.00	6
CE	TRP	<u> B</u>	12	7.004	26.579	-27,344		0.00	6
C_	TRP	B	2	10.050	25.177	-28.719	0.00		
N_	TRP	B	2	9.737	24.332	-27.681	0.00	0.00	7
CZ	TRP	В	2	7.886	24.252	-25.994	0.00	0.00	6
CZ	TRP	В	2	6.308	26.064	-26.268	0.00		6
C	TRP	В	2	6.753	24.911	-25.607	0.00	0.00	6
č	TRP	В	2	10.360	29.088	-30.980	0.00	0.00	6
		В	2	10.470	28,532	-32,077	0.00		8
0	TRP	$\overline{}$	_			-30.865	0.00		7
N	ASP	<u>₽</u>	12	10.375	30.406		0.00		16
LCA	ASP	<u> </u>	2	10,598	31.309	-31.980			6
CB	ASP	<u> B</u>	2	10,100	32,708	-31.631	0.00		_
C	ASP	В	2	10.026	33.634	32.825	0.00	_	16
0	ASP	В	12	10.882	34.541	-32,926	0.00		8
0	ASP	В	2	9.100	33.478	-33.647	0.00	0.00	8
	ASP	В	2	12,093	31.324	-32.293	0.00	0.00	6
Ç			_		31,053	-31.414	0.00		8
	ASP	↓ <u>B</u>	12	12.914			0.00		17
N	LYS	Į₿	12	12,451	31.655	-33,526	_		6
	LYS	<u> </u>	12	13.839	31.677	33.956	0.00		
CA		В	2	13.904	31.745	-35,490	0.00		16
	LYS							0.00	6
CB		В	2	13.364	33.042	36.070	0.00	_	_
	LYS LYS LYS	B	2 2	13.364	33.042 33.558			_	6

_									_
NZ	LYS	В	2	15.416	35,744	-37.419	0.00	0.00	7
C	LYS	В	2	14.662	32.808	-33.361	0.00	0.00	6
0	LYS	В	2	15.883	32.672	-33.235	0.00	0.00	8
N	GLU	В	2	14.035	33.916	-32.989	0.00	0,00	7
CA	GLU	B_	2	14.726	35.061	-32.424	0.00	0.00	6
CB	GLU	В	2	13.994	36.350	-32.810	0.00	0.00	6
<u>C</u>	GLU	В	2	13.999	36.700	-34.291	0.00	0.00	6
C	GLU	В	2	13.184	37.968	-34.508	0.00	0,00	6
0	GLU	В	2	13.724	39.057	-34.221	0.00	0.00	8
0_	GLU	B	2	12.017	37.858	-34.934	0.00	0.00	8
C	GLU	В	2	14.885	35.037	-30.910	0.00	0.00	6
0	GLU	B -	2	15.305	36.051	-30.338	0.00	0.00	8
N	ARG	В	2	14.572	33.939	-30.240	0.00	0.00	7
CA	ARG	B	2	14.764	33.797	-28.809	0.00	0.00	6
CB	ARG	В	2	14.709	32.328	-28.382	0.00	0.00	6
С	ARG	В	2	13.360	31.659	-28,338	0.00	0.00	6
C_	ARG	B	2	13.481	30.147	-28.281	0.00	0.00	6
N	ARC	B	2	14.578	29.612	-29.063	0.00	0.00	7
CZ	ARG	B	2	14.646	28.397	-29.592	0.00	0.00	6
N	ARG	B	12	13.659	27.524	-29.440	0.00	0.00	7
N	ARG	В	2	15.720	28.042	-30.289	0.00	0.00	17
C	ARG	В	2	16,145	34,280	-28,362	0.00	0.00	6
0	ARG	B	2	17.137	33.895	-28.984	0.00	0.00	8
N	ASP	В	2	16.207	35.016	-27.262	0.00	0.00	17
CA	ASP	B	12	17.496	35.449	-26.731	0.00	0.00	6
CB	ASP	B	12	17.832	36.867	-27.184	0.00	0.00	6
C	ASP	B	12	16.949	37.938	-26.586	0.00	0.00	6
<u> </u>	ASP	B	12	15,755	37.674	.26.343	0.00	0.00	18
<u>_</u>	ASP	<u> B</u>	12	17.444	39.061	-26.356	0.00	0.00	8
<u> </u> C_	ASP	<u> </u>	12	17.552	35.323	-25.211	0.00	0.00	8
0	ASP	B	2	18.370	35.996	-24.576	0.00	0.00	7
N.	GLY	B	12	16,729	34,459	-24.622	0.00	0.00	6
CA	GLY	Į₿.	2	16.754	34.252	-23.180	0.00	0.00	6
도	GLY	B	12	15.393	34,378 34,946	-22,513 -23,082	0.00	0.00	8
٩	CLY	B	12	14.460	33.856	-23.032	0.00	0.00	17
N	PHE	B B	2	15.264 13.987	33.905	-20.587	0.00	0.00	6
CA	PHE	₽	2	13.870	32,798	-19.546	0.00	0.00	6
CB		B	2	14.610	32.931	-18.254	0.00	0.00	6
C	PHE	В	2	14.083	33.664	-17.203	0.00	0.00	6
	PHE	В	2	15,840	32.315	-18.077	0.00	0.00	6
C		В	2	14,765	33,785	-16.007	0.00	0.00	6
CE	PHE	B	2	16.528	32.432	-16.884	0.00	0.00	6
	PHE	B	2	15.991	33.169	-15.848	0.00	0.00	6
CZ C	PHE	ТB	2	13.692	35.281	-20.011	0.00	0.00	6
ŏ	PHE	TB	12	14.537	36.171	-19.954	0.00	0.00	8
N	VAL	B	2	12,427	35.476	-19.649	0.00	0.00	7
CA	VAL	В	2	11.965	36,728	-19.061	0.00	0.00	6
CB		В	2	10.819	37.378	-19.845	0.00	0.00	6
C	VAL	В	2	10.370	38.672	-19.177	0.00	0.00	6
Č	VAL	B	2	11.234	37.671	-21,282	0.00		6
č	VAL	В		11.538	36,468	-17.615	0.00	0.00	6
0	VAL	B		10.803	35.529	-17.331	0.00		8
N	LEU	B		12.064	37,268	-16.701	0.00		7
CA	LEU	B		11.820	37.122	-15.274	0.00	0.00	6
CB		В		12.911	37.874	-14.519	_		-6
C	LEU	B	_	13.283	37.540		0.00		6
C	LEU	В		12.981	36,102	-12.696	0.00	_	6
C	LEU			14.769	37.833			_	6
Č	LEU	_	_	10.446	37,641	-14.868			6
0	LEU			10.029	38.705				8
N	GLY			9.756	36,907		0.00		7
CA		_		8,439	37,300		0.00	0.00	6
C	GLY			8.245	37.044		0.00		6

Figure 1 - 37

0	GLY	В	2	3.864	36.154	-11.456	0.00	0.00	8
N.	ASP	В	2	7.357	37.812	-11.419	0.00	0.00	7
CA	ASP	В	2_	7.049	37.681	-10.007	0.00	0.00	6
СВ	ASP	В	2	7.131	39.013	9.261	0.00	0.00	6
c_	ASP	В	2	8.433	39.754	-9.450	0.00	0.00	6
		В	2	9.502	39,115	9.377	0.00	0.00	8
0	ASP						0.00	0.00	8
0	ASP	В	2	3.386	40.980	-9.676			6
C	ASP	В	2	5.629	37.151	-9.804	0.00	0.00	_
0	ASP	В	2	4.764	37.359	-10.654	0.00	0.00	8
N	GLY	В	2	5.394	36.540	-8.644	0.00	0.00	7
CA	GLY	В	2	4.060	36.050	-8.336	0.00	0.00	6
C	GLY	В	2	4.049	34.883	-7.363	0.00	0.00	6
_		_	2	5.018	34.582	-6.671	0.00	0.00	8
0	GLY	B				-7.305	0.00	0.00	7
N.	ALA	В	2	2.897	34.226				6
CA	ALA	В	2	2.672	33.116	-6.393	0.00	0.00	
CB	ALA	В	2	2.668_	33.596	-4.948	0.00	0.00	6
$\begin{bmatrix} c \end{bmatrix}$	ALA	В	2	1.336	32,447	-6.706	0.00	0.00	6
0	ALA	В	2	0.329	33.123	-6.890	0.00	0.00	8
N	GLY	В	2	1.363	31.129	-6.779	0.00	0.00	7
CA	GLY	В	2	0.163	30.338	-7.029	0.00	0.00	6
_			2	0.020	29.388	-5.837	0.00	0.00	6
<u>چ</u> ا	GLY	<u>B</u>			28.954	-5.292	0.00	0.00	8
0	GLY	В.	2	1.036				0.00	17
N_	MET	B	2_	-1.211	29.102	-5.442	0.00		_
CA	MET	В	2	-1.422	28.233	-4.284	0.00	0.00	6
CB	MET	В	2	-1.550	29.112	3.041	0.00	0.00	6
C	MET	В	2	-0.922	28.605	-1.769	0.00	0.00	6
SD	MET	В	2	0.868	28.696	-1.678	0.00	0.00	1
CE	MET	В	2	1.196	30.339	-2.299	0.00	0.00	6
_	MET	В	2	-2.670	27.388	-4.482	0.00	0.00	6
Ę.		_	_		27.921	-4.952	0.00	0.00	8
<u>o</u> .	MET	B	2	-3.679		4.184	0.00	0.00	7
N	LEU	B	2	-2.590	26.091			0.00	6
CA	LEU	В	2	-3.766	25.247	4.290	0.00		
CB	LEU	B	12	-3.780	24.224	-5.406	0.00	0.00	6.
C_	LEU	В	2	-2.622	23.976	-6.348	0.00	0.00	6
C	LEU	В	2	-2.799	22.652	-7.084	0.00	0.00	16
C	LEU	В	2	-2.495	25.100	-7.364	0.00	0.00	16
C_	LEU	В	2	-3.990	24.490	-2.973	0.00	0.00	6
ŏ	LEU	В	2	-3.070	24,212	-2.213	0.00	0.00	8
		В	2	-5.258	24.167	-2,753	0.00	0.00	7
N.	VAL	_				-1.629	0.00	0.00	6
CA	VAL	В	2	-5.647	23.333		_		6
CB	VAL	<u>lb</u>	2	-6.971	23.726	-0.970	0.00	0.00	
C	VAL	B	2	-7.287	22.787	0.190	0.00	0.00	16
С	VAL	В	2	-6.934	25.165	-0,485	0.00	0.00	6
С	VAL	В	2	-5.760	21.906	-2,178	0.00	0.00	16
ō	VAL	В	2	-6.503	21.652	-3.124	0.00	0.00	8
N	LEU	В	2	4.938	21.022	-1,633	0.00	0,00	7
_	LEU	В	2	4.968	19.617	-2.023	0.00	0.00	6
CA					19.081	-2.270	0.00	0.00	6
CB		 B	12	-3.564			0.00	0.00	6
<u> </u>	LEU	Į₿.	12	-2.854	19,486	-3.561			6
C	LEU	<u>B</u>	12	-1.421	18.970	3,566	0.00	0.00	
C	LEU	B	12	-3.602	18.970	4.779	0.00	0.00	16
C	LEU	В	2	-5.635	18.855	-0.882	0.00	0.00	16
O.	LEU	В	2	-5.298	19.145	0.271	0.00	0.00	8
N	GLU	В	2	-6.547	17,935	-1.169	0,00	0.00	7
		В	2	-7.132	17.161	-0.074	0.00	0.00	6
CA	GLU					0.663	0.00	0.00	6
CB		B	2	8.211	17.932				
C	GLU	<u>↓₿</u>	2	-9.550	18,093	-0.026	0.00	0.00	6
C	GLU	В	2	-10.514	18.883	0.845	0.00	0.00	6
0	GLU	Тв	2	-10.645	20,104	0.631	0.00	0.00	8
		_	2	-11,130	18.277	1.748	0,00	0.00	8
_	CITI								
0	GLU	B					0.00	0.00	6
O C	GLU	В	2	-7.623	15.795	-0.538	0.00	0.00	
000	GLU GLU	B B	2	-7.623 -7.749	15.795 15.519	-0.538 -1.729	0.00	0.00	8
O C	GLU	B B	2	-7.623	15.795	-0.538			

							0.00	0.00	
CB	GLU	-	2	-7.982	12.690	1.450	0.00	0.00	6
C	GLU	В	2	-8.173	11.195		0.00	0.00	6
С	GLU	В	2	-9.627	10.801	1.445	0.00	0.00	_
0 1	GLU	В	2	-10.283	11.423	2.308	0.00	0.00	8
0	GLU !		2	-10.094	9.890	0.734	0.00	0.00	8
C	GLU	В	2	-9.584	13.491	-0.338	0.00	0.00	6
0	GLU	В	2	-10.468	14.184	0.159	0.00	0.00	8
N	TYR	В	2	-9.813	12.671	-1.355	0.00	0.00	7
CA	TYR	В	2	-11.109	12.554	-1.999	0.00	0,00	6
CB	TYR	В	2	-11.091	11.397	-3.007	0.00	0.00	6
С	TYR	В	2	-12.367	11.296	-3.815	0.00	0.00	6
C	TYR	В	2	-12.773	12.324	-4.653	0.00	0.00	6
CE	TYR	В	2	-13.942	12,226	-5.385	0.00	0.00	6
С	TYR	В	2	-13.166	10,165	-3.726	0.00	0.00	6
CE	TYR	В	2	-14.337	10.059	-4.453	0.00	0.00	6
CZ	TYR	В	2	-14.718	11.092	-5.281	0.00	0.00	6
0	TYR	В	2	-15.882	10.989	-6.005	0.00	0.00	8
Č.	TYR	В	2	-12.290	12.410	-1.056_	0.00	0.00	6
ŏ	TYR	В	2	-13.194	13.253	-1.067	0.00	0.00	В
	GLU	В	2	-12.307	11.371	-0.230	0.00	0.00	7
N.			2		11.118	0.699	0.00	0.00	6
CA	GLU	В		-13.398	9.758	1.380	0.00	0.00	6
CB	GLU	В	2	-13.208		0.421	0.00	0.00	6
<u>c</u>	GLU	<u>B</u>	2	-13.307	8.581		0.00	0.00	6
Ç_	GLU	В	2	-14.660	8.471	-0.254		0.00	8
<u> </u>	GLU	В	2	-15.659	8.185	0.439	0.00		8
0	GLU	B	2	-14.735	8.674	-1.483	0.00	0.00	6
C_	GLU	В	2	-13.606	12.212	1.732	0.00	0.00	
0	GLU	B	2	-14.740	12.442	2,162	0.00	0.00	18
N_	HIS	В	2	-12.550	12.909	2.130	0.00	0.00	17
CA	HJS	Į₿.	2	-12.642	14.026	3.055	0.00	0.00	16
CB	HIS	B	2	-11.238	14,462	3.484	0.00	0.00	6
LC_	HIS	B	2	-11.205	15.558	4.501	0.00	0.00	16
C	HIS	B	2	-11.081	15.517	5.848	0.00	0.00	16
N_	HIS	В	12	-11.298	16.891	4.168	0.00	0.00	17
CE	HIS	В	12	-11.244	17,626	5,264	0.00	0.00	16.
N	HIS	В	2	-11.114	16.815	6.298	0.00	0.00	171
C	HIS	В	2	-13.365	15.207	2,410	0.00	0.00	6
0	HIS	В	2	-14.184	15.877	3.035	0.00	0.00	8
N	ALA	В	2	-13.048	15,466	1.146	0.00	0.00	7
CA	ALA	В	2	-13.619	16.566	0.387	0.00	0.00	6
СВ	ALA	В	2	-12.766	16.829	-0.850	0.00	0.00	6
c	ALA	В	2	-15.064	16.328	-0.025	0.00	0.00	6
ŏ	ALA	В	2	-15.895	17.233	0.033	0.00	0.00	8
N	LYS	В	2	-15.365	15,103	-0.439	0.00	0.00	7
CA	LYS	В	2	-16.724	14.731	-0.829	0.00	0.00	6
CB	LYS	В	2	-16.722	13.333	-1.441	0.00	0.00	6
	LYS	B	2	-18.083	12.691	-1.639	0.00	0.00	6
C	LYS	В	2	-17.953	11.203	-1.929	0.00	0.00	6
		_	2	-19.228	10.644	-2.540	0.00	0.00	6
CE	LYS	 B			9.774	-3.715	0.00	0.00	7
NZ	LYS	문	2	17.552	14.809	0.379	0.00	0.00	6
<u> </u>	LYS	 B	12	-17.652			0.00	0.00	8
<u>Q</u>	LYS	B	12	17.772	15.314	0.295	0.00	0.00	7
N_	LYS	<u>₽</u>	12	-17.191	14.339	1.532			6
CA	LYS	B	2	17.943	14.347	2.775	0.00	0.00	
CB	LYS	Į₿.	2	-17,116	13.694	3.889	0.00	0.00	6
C	LYS	↓B	2	-17.772	13,688	5.257	0.00	0.00	6
C	LYS	↓B	2	-17.156	12,642	6.174	0.00	0.00	16
CE	LYS	В	2	-17,820	11.287	5.989	0.00	0.00	6
NZ	LYS	B	2	-17.061	10.429		0.00	0.00	17
C	LYS	В	2	-18.394	15,735	3,209	0.00	0.00	6
0	LYS	В	2	-19.472	15.872	3.797	0.00		8_
N.	ARG	В	2	-17.593	16.766	2.971	0.00	0.00	7
CA	ARG	В	2	-17.965	18.131	3.318	0.00	0.00	6
CB		В	2	-16.756			0.00	_	6

Figure 1 - 38

C ARG B 2 -15.223			P	-	10.000	10.007	: 201	0.00	0.00	1 6
N ARG B 2 - 15.203 17.305 6.639 0.00 0.00 7 CZ ARG B 2 - 14.4361 17.075 7.633 0.00 0.00 7 N ARG B 2 - 14.446 15.947 8.329 0.00 0.00 7 N ARG B 2 - 14.446 15.947 8.329 0.00 0.00 7 C ARG B 2 - 13.598 18.849 2.129 0.00 0.00 7 C ARG B 2 - 19.076 18.799 0.271 0.00 0.00 6 O ARG B 2 - 18.496 18.262 0.942 0.00 0.00 7 C ARG B 2 - 19.076 18.799 0.271 0.00 0.00 6 C GLY B 2 - 18.940 21.015 -1.171 0.00 0.00 6 C GLY B 2 - 18.940 21.015 -1.171 0.00 0.00 8 N ALA B 2 - 16.202 20.919 1.579 0.00 0.00 7 CA ALA B 2 - 16.202 20.919 1.579 0.00 0.00 6 C ALA B 2 - 16.203 21.053 3.095 0.00 0.00 6 C ALA B 2 - 16.500 20.108 3.829 0.00 0.00 6 C ALA B 2 - 15.500 20.108 3.829 0.00 0.00 6 C ALA B 2 - 15.502 20.689 1.128 0.00 0.00 6 C LYS B 2 - 15.528 22.494 4.992 0.00 0.00 6 C LYS B 2 - 15.810 26.243 5.555 0.00 0.00 0.00 6 C LYS B 2 - 15.810 26.243 5.555 0.00 0.00 0.00 6 C LYS B 2 - 15.810 26.243 5.5519 0.00 0.00 6 C LYS B 2 - 15.810 26.243 5.5519 0.00 0.00 6 C LYS B 2 - 14.465 21.615 5.445 0.00 0.00 6 C LYS B 2 - 14.465 21.615 5.455 0.00 0.00 6 C LYS B 2 - 13.305 17.795 2.830 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.565 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.565 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.565 0.00 0.00 6 C LYS B 2 - 14.465 21.615 5.445 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.995 18.247 6.630 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 0.00 6 C LYS B 2 - 13.395 17.795 5.655 0.00 0.00 0.00 6 C LYR B 2 - 13.395 17.795 5.655 0.00 0.00 0.00 6 C LYR B 2 - 13.395 17.795 5.655 0.00 0.00 0.00 6 C LYR B 2 - 13.395 17.795 5.650 0.00 0.00 0.00 6 C LYR B 2 - 13.395 17.795 5.650 0.00 0.00 0.00 6 C LYR B 2 - 10.473 25.395 9.300 0.00 0.00 6 C LYR B 2 - 10.473 25.395 9.300 0.00 0.00 6 C LYR B 2 - 10.473 25.395 9.300 0.00 0.00 6 C LYR B 2 - 10.473 25.395 9.300 0.00 0.00 6 C LYR B 2 - 10.473	_									_
CZ ARG B 2 - 14.361 17.075 7.633 0.00 0.00 6 N ARG B 2 - 13.421 17.958 19.48 0.00 0.00 7 C ARG B 2 - 13.421 17.958 19.48 0.00 0.00 7 C ARG B 2 - 13.598 18.499 2.129 0.00 0.00 6 O ARG B 2 - 19.177 19.924 2.276 0.00 0.00 7 C ARG B 2 - 19.177 19.924 2.276 0.00 0.00 6 O ARG B 2 - 19.076 18.799 0.271 0.00 0.00 6 C GLY B 2 - 18.336 19.987 0.850 0.00 0.00 6 C GLY B 2 - 18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 - 18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 - 18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 - 18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 - 16.502 20.919 1.579 0.00 0.00 6 C ALA B 2 - 16.502 20.919 1.579 0.00 0.00 6 C ALA B 2 - 16.502 20.919 1.579 0.00 0.00 6 C ALA B 2 - 16.503 21.053 3.095 0.00 0.00 6 C ALA B 2 - 16.500 20.108 3.829 0.00 0.00 6 C ALA B 2 - 16.500 20.108 3.829 0.00 0.00 6 C LYS B 2 - 15.861 22.242 3.565 0.00 0.00 6 C LYS B 2 - 15.528 22.494 4.982 0.00 0.00 6 C LYS B 2 - 15.528 22.494 4.982 0.00 0.00 6 C LYS B 2 - 15.529 27.315 4.830 0.00 0.00 6 C LYS B 2 - 15.810 25.235 5.505 0.00 0.00 6 C LYS B 2 - 15.810 25.235 5.505 0.00 0.00 6 C LYS B 2 - 15.310 25.33 0.00 0.00 6 C LYS B 2 - 14.455 26.53 5.931 0.00 0.00 6 C LYS B 2 - 14.455 26.53 5.931 0.00 0.00 6 C LYS B 2 - 14.459 28.337 4.954 0.00 0.00 6 C LYS B 2 - 14.459 26.83 5.931 0.00 0.00 6 C LYS B 2 - 13.335 21.378 5.024 0.00 0.00 6 C LYS B 2 - 14.455 21.615 5.445 0.00 0.00 6 C LYS B 2 - 14.459 26.507 0.00 0.00 6 C LYS B 2 - 13.393 18.247 6.630 0.00 0.00 6 C LYS B 2 - 14.498 16.377 4.914 0.00 0.00 6 C LYR B 2 - 13.993 17.386 -7.459 0.00 0.00 6 C LYR B 2 - 13.993 17.386 -7.459 0.00 0.00 6 C TYR B 2 - 10.899 23.698 6.257 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 6.257 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 6.257 0.00 0.00 0.00 6 C TYR B 2 - 13.991 19.837 9.109 0.00 0.00 6 C TYR B 2 - 10.899 23.698 6.257 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 8.260 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 8.260 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 8.260 0.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 9.00 0.00 0.00 6 C TYR B 2 - 10.899 23.698 9.00 0.00 0.00 6 C										
N ARG B 2 -13.421 17.958 7.948 0.00 0.00 7 N ARG B 2 -14.446 15.947 8.329 0.00 0.00 7 C ARG B 2 -13.598 18.849 2.129 0.00 0.00 6 C ARG B 2 -19.177 19.924 2.276 0.00 0.00 8 N GLY B 2 -18.496 18.262 0.942 0.00 0.00 6 C GLY B 2 -18.336 19.987 0.860 0.00 0.00 6 C GLY B 2 -18.336 19.987 0.860 0.00 0.00 6 C GLY B 2 -18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 -18.940 21.015 1.171 0.00 0.00 6 C GLY B 2 -18.596 8.10 19.987 0.860 0.00 0.00 6 C GLY B 2 -16.202 0.919 1.579 0.00 0.00 6 C ALA B 2 -16.202 0.919 1.579 0.00 0.00 6 C ALA B 2 -16.202 0.919 1.579 0.00 0.00 6 C ALA B 2 -16.233 20.653 3.095 0.00 0.00 6 C ALA B 2 -15.602 20.919 1.579 0.00 0.00 6 C ALA B 2 -15.602 20.919 1.579 0.00 0.00 6 C ALA B 2 -15.602 20.919 1.579 0.00 0.00 6 C ALA B 2 -15.603 20.108 3.829 0.00 0.00 6 C LYS B 2 -15.861 22.242 3.555 0.00 0.00 0.00 6 C LYS B 2 -15.628 22.494 4.982 0.00 0.00 6 C LYS B 2 -15.636 23.955 5.205 0.00 0.00 6 C LYS B 2 -15.636 24.924 5.519 0.00 0.00 6 C LYS B 2 -15.810 25.233 5.931 0.00 0.00 6 C LYS B 2 -15.810 25.233 5.931 0.00 0.00 6 C LYS B 2 -15.392 27.315 4.830 0.00 0.00 6 C LYS B 2 -14.455 21.615 5.445 0.00 0.00 6 C LYS B 2 -13.335 1.378 5.024 0.00 0.00 6 C LYS B 2 -14.479 20.598 6.257 0.00 0.00 7 C LYS B 2 -14.479 20.598 6.257 0.00 0.00 7 C LYS B 2 -13.335 17.795 5.155 0.00 0.00 7 C LYS B 2 -13.928 17.386 5.024 0.00 0.00 6 C LYS B 2 -13.931 18.247 6.630 0.00 0.00 6 C LLS B 2 -13.932 17.385 5.024 0.00 0.00 6 C LLS B 2 -13.933 18.247 6.630 0.00 0.00 6 C LYR B 2 -14.471 20.323 9.7494 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.1719 25.509 9.331 0.00 0.00 6 C TYR B 2 -11.038 5.256 0.00 0.00 0.00 6 C TYR B 2 -11.038 5.256 0.00 0.00 0.00 6 C TYR B 2 -10.947 12.332 9.765 0.00 0.00 0.00 6 C TYR B 2 -10.947 12.332 9.765 0.00 0.00 0.00 6 C TYR B 2 -10.947 12.332 9.557 0.00 0.00 0.00 6 C TYR B 2 -10.943 17.385 1.959 0.00 0.00 0.0				ı				Ī		_
N ARG B 2 -14.446 15.947 8.329 0.00 0.00 7 C ARG B 2 -19.598 18.499 2.129 0.00 0.00 0.00 0.00 8 N GLY B 2 -19.076 18.799 0.271 0.00 0.00 6 C GLY B 2 -18.496 18.799 0.271 0.00 0.00 0.00 C GLY B 2 -18.940 21.015 -1.171 0.00 0.00 0.00 C ALA B 2 -16.202 20.919 1.579 0.00 0.00 0.00 6 CB ALA B 2 -16.203 21.053 3.095 0.00 0.00 6 CB ALA B 2 -16.203 21.053 3.095 0.00 0.00 6 CB ALA B 2 -16.500			_							_
C ARG B 2 -19.177 19.924 2.276 0.00 0.00 6 N GLY B 2 -19.177 19.924 2.276 0.00 0.00 0.00 CA GLY B 2 -18.496 18.262 0.942 0.00 0.00 6 CA GLY B 2 -18.336 19.987 0.850 0.00 0.00 6 C GLY B 2 -18.940 2.015 1.171 0.00 0.00 6 C GLA B 2 -16.202 20.919 -1.579 0.00 0.00 6 CA ALA B 2 -16.502 20.919 -1.579 0.00 0.00 6 CA ALA B 2 -15.638 21.133 2.095 0.00 0.00 6 CB LYS B 2 -15.638 22.494 -4.982 0.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>										_
O ARG B 2 -19.177 19.924 2.276 0.00 0.00 8 N GLY B 2 -18.496 18.262 0.942 0.00 0.00 0.00 6 CA GLY B 2 -18.396 18.799 0.271 0.00 0.00 6 C GLY B 2 -18.336 19.987 0.850 0.00 0.00 0.00 C GLY B 2 -18.336 19.987 0.850 0.00 0.00 0.00 CA ALA B 2 -16.202 20.919 1.579 0.00 0.00 6 CA ALA B 2 -16.500 20.188 3.829 0.00 0.00 6 CA ALA B 2 -15.861 22.242 3.555 0.00 0.00 0 CA LYS B 2 -15.262 2.395 5.525 </td <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_									
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N ALA B 2 .17.031 19.848 .1.051 0.00 0.00 7 CA AIA B 2 .16.202 20.919 1.579 0.00 0.00 6 CB ALA B 2 .14.759 20.689 1.128 0.00 0.00 6 C ALA B 2 .16.233 21.053 3.095 0.00 0.00 6 O ALA B 2 .15.861 22.242 3.565 0.00 0.00 7 CA LYS B 2 .15.861 22.242 3.565 0.00 0.00 6 C LYS B 2 .15.861 22.242 3.565 0.00 0.00 6 CE LYS B 2 .15.861 22.242 3.565 0.00 0.00 6 C LYS B 2 .15.861 22.395 5.205 0.00 0.00 6 C LYS B 2 .15.810 26.283 5.931 0.00 0.00 6 C LYS B 2 .15.810 26.283 5.931 0.00 0.00 6 C LYS B 2 .15.830 26.283 5.931 0.00 0.00 6 C LYS B 2 .15.335 21.378 5.024 0.00 0.00 6 C LYS B 2 .13.335 21.378 5.024 0.00 0.00 6 C LYS B 2 .14.465 21.615 5.445 0.00 0.00 6 C LYS B 2 .14.719 20.598 6.257 0.00 0.00 6 C LYS B 2 .13.335 21.378 5.024 0.00 0.00 6 C LYS B 2 .13.395 17.795 5.165 0.00 0.00 6 C LYS B 2 .13.395 17.795 5.165 0.00 0.00 6 C LYS B 2 .13.935 17.795 5.165 0.00 0.00 6 C LYS B 2 .13.935 17.395 6.720 0.00 0.00 6 C LYS B 2 .13.935 17.395 8.720 0.00 0.00 6 C LYS B 2 .13.935 17.395 8.720 0.00 0.00 6 C LLE B 2 .13.935 17.395 5.165 0.00 0.00 6 C LLE B 2 .13.935 17.395 6.720 0.00 0.00 6 C LLE B 2 .13.935 17.395 6.720 0.00 0.00 6 C LLE B 2 .13.935 17.395 0.00 0.00 0.00 6 C LLE B 2 .13.935 17.395 0.00 0.00 0.00 6 C LLE B 2 .13.935 17.395 0.00 0.00 0.00 6 C LLE B 2 .13.935 17.395 0.00 0.00 0.00 6 C TYR B 2 .10.899 23.699 9.369 0.00 0.00 6 C TYR B 2 .10.899 23.699 9.360 0.00 0.00 6 C TYR B 2 .10.899 23.699 9.361 0.00 0.00 6 C TYR B 2 .10.899 23.699 9.3931 0.00 0.00 6 C TYR B 2 .10.996 20.221 10.393 0.00 0.00 6 C TYR B 2 .10.996 20.221 10.393 0.00 0.00 6 C TYR B 2 .10.996 20.221 10.393 0.00 0.00 0.00 6 C GLU B 2 .7.653 15.197 9.338 0.00 0.00 0.00 6 C GLU B 2 .7.653 15.197 9.338 0.00 0.00 0.00 6 C GLU B 2 .7.653 15.197 9.338 0.00 0.00 0.00 6 C GLU B 2 .7.653 15.197 9.338 0.00 0.00 0.00 6 C GLU B 2 .7.653 15.197 9.338 0.00 0.00 0.00 6 C GLU B 2 .7.899 12.712 9.769 0.00 0.00 0.00 6 C GLU B 2 .7.899 12.712 9.769 0.00 0.00 0.00 6 C GLU B 2 .7.899 12.712 9.769 0.00 0.00 0.00 6 C GLU B 2 .7.899 12.712 9.769 0.00 0.00 0.00 6 C GLU B 2 .7.899 12.71	C_	GLY	В	2	-18.336	19.987	-0.860			_
CA ALA B 2 .16.202 20.919 1.579 0.00 0.00 6 CB ALA B 2 .16.203 20.699 1.128 0.00 0.00 6 C ALA B 2 .16.203 20.699 1.128 0.00 0.00 6 C ALA B 2 .16.500 20.108 3.829 0.00 0.00 6 N LYS B 2 .15.861 22.242 3.565 0.00 0.00 0.00 6 N LYS B 2 .15.628 22.494 4.982 0.00 0.00 6 CB LYS B 2 .15.628 22.494 4.982 0.00 0.00 6 CB LYS B 2 .15.861 22.242 3.565 0.00 0.00 6 C LYS B 2 .15.861 22.242 5.519 0.00 0.00 6 C LYS B 2 .15.810 26.283 5.931 0.00 0.00 6 C LYS B 2 .15.892 27.315 4.830 0.00 0.00 6 CLYS B 2 .15.892 27.315 4.830 0.00 0.00 6 CLYS B 2 .15.992 27.315 4.830 0.00 0.00 6 CLYS B 2 .15.992 17.329 28.037 4.954 0.00 0.00 7 CLYS B 2 .13.335 21.878 5.024 0.00 0.00 7 C LYS B 2 .13.355 21.878 5.024 0.00 0.00 6 C LYS B 2 .13.465 21.615 5.445 0.00 0.00 7 CA ILE B 2 .13.973 18.247 6.630 0.00 0.00 6 C ILE B 2 .13.935 17.395 5.165 0.00 0.00 6 C ILE B 2 .13.935 17.395 5.165 0.00 0.00 6 C ILE B 2 .13.934 16.377 4.914 0.00 0.00 6 C ILE B 2 .13.234 20.148 8.132 0.00 0.00 6 C ILE B 2 .13.234 20.148 8.132 0.00 0.00 6 C ILE B 2 .13.291 19.837 9.109 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.276 0.00 0.00 6 C TYR B 2 .11.300 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 0.00 6 C TYR B 2 .11.310 24.654 9.744 0.00 0.00 0.00 6 C TYR B 2 .10.996 20.221 1.00.99 0.00 0.00 6 C TYR B 2 .10.447 22.332 9.566 0.00 0.00 0.00 6 C TYR B 2 .10.435 11.528 0.00 0.00 0.00 6 C TYR B 2 .10.435 11.528 0.00 0.00 0.00 6 C GLU B 2 .8.355 18.680 11.528 0.00 0.00 0.00 6 C GLU B 2 .8.355 18.144 9.719 0.00 0.00 0.00 6 C GLU B 2 .8.356 18.155 19.933	0	GLY	В	2	-18.940	21.015	-1.171	0.00	0.00	
CA ALA B Z -16.202 20.919 -1.579 0.00 0.00 6 CB ALA B 2 -14.759 20.689 -1.128 0.00 0.00 6 C ALA B 2 -16.500 20.108 -3.829 0.00 0.00 8 N LYS B 2 -15.5861 22.242 -3.565 0.00 0.00 6 CA LYS B 2 -15.861 22.242 -3.565 0.00 0.00 6 CA LYS B 2 -15.816 22.242 -3.565 0.00 0.00 6 CE LYS B 2 -16.366 24.924 -5.519 0.00 0.00 6 CE LYS B 2 -15.310 26.233 5.931 0.00 0.00 6 CLYS B 2 -15.392 27.315 4.830 0.00 <th< td=""><td>N</td><td>ALA</td><td>В</td><td>2</td><td>-17.031</td><td>19.848</td><td>-1.051</td><td>0.00</td><td>0.00</td><td>7</td></th<>	N	ALA	В	2	-17.031	19.848	-1.051	0.00	0.00	7
CB ALA B 2 1.4.759 20.689 -1.128 0.00 0.00 6 C ALA B 2 -16.233 20.053 3.955 0.00 0.00 6 N LYS B 2 -15.561 22.242 3.565 0.00 0.00 .6 CA LYS B 2 -15.628 22.494 4.982 0.00 0.00 6 CB LYS B 2 -15.266 23.955 5.205 0.00 0.00 6 CB LYS B 2 -15.810 26.283 5.931 0.00 0.00 6 CE LYS B 2 -17.299 28.037 4.954 0.00 0.00 6 CE LYS B 2 -13.352 21.373 5.024 0.00 0.00 0 C LYS B 2 -14.465 21.615 5.445 0.00 <td></td> <td></td> <td></td> <td></td> <td>-16.202</td> <td>20.919</td> <td>1.579</td> <td>0.00</td> <td>0.00</td> <td>6</td>					-16.202	20.919	1.579	0.00	0.00	6
C ALA B 2 -16.233 21.053 3.095 0.00 0.00 6 O ALA B 2 -16.500 20.108 3.829 0.00 0.00 8 N LYS B 2 -15.861 22.242 3.565 0.00 0.00 6 CB LYS B 2 -15.528 22.494 4.982 0.00 0.00 6 CB LYS B 2 -15.528 22.494 -5.519 0.00 0.00 6 CL LYS B 2 -15.810 26.233 5.931 0.00 0.00 6 CL LYS B 2 -17.289 28.037 4.954 0.00 0.00 7 CLYS B 2 -14.719 20.598 6.257 0.00 0.00 6 N ILE B 2 -13.325 21.373 8.720 0.00 0.00 <td></td> <td></td> <td>В</td> <td>2</td> <td>-14.759</td> <td>20.689</td> <td>-1.128</td> <td>0.00</td> <td>0.00</td> <td>6</td>			В	2	-14.759	20.689	-1.128	0.00	0.00	6
O ALA B 2 -16.500 20.108 -3.829 0.00 0.00 8 N LYS B 2 -15.681 22.242 -3.655 0.00 0.00 0 <t< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>6</td></t<>				_						6
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O TYR B 2	CE	TYR	B	2	-11.719	25,909	-9.331	0.00		
C TYR B 2 -10.996 20.221 -10.393 0.00 0.00 6 O TYR B 2 -11.028 20.320 -11.619 0.00 0.00 8 N ALA B 2 -10.375 19.227 9.769 0.00 0.00 7 CA ALA B 2 -9.739 18.142 -10.500 0.00 0.00 6 CB ALA B 2 -8.755 18.680 -11.528 0.00 0.00 6 C ALA B 2 -9.018 17.202 -9.536 0.00 0.00 6 C ALA B 2 -9.043 17.385 -8.320 0.00 0.00 6 C ALA B 2 -9.043 17.385 -8.320 0.00 0.00 6 C ALA B 2 -7.653 15.197 -9.338 0.00 0.00 6 C ALA B 2 -7.653 15.197 -9.338 0.00 0.00 6 C GLU B 2 -8.294 13.825 -9.577 0.00 0.00 6 C GLU B 2 -8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 -7.824 10.329 8.569 0.00 0.00 6 C GLU B 2 -9.436 11.289 9.684 0.00 0.00 6 C GLU B 2 -9.436 11.289 9.684 0.00 0.00 6 C GLU B 2 -5.814 15.144 9.719 0.00 0.00 6 C GLU B 2 -5.814 15.144 9.719 0.00 0.00 6 C GLU B 2 -5.814 15.144 9.719 0.00 0.00 8 N LEU B 2 -5.844 15.155 10.903 0.00 0.00 8 N LEU B 2 -5.814 15.093 8.714 0.00 0.00 8	CZ	TYR	В	2	-11.714	26.217	·7.990	0.00	0.00	
C TYR B 2 -10.996 20.221 -10.393 0.00 0.00 6 O TYR B 2 -11.028 20.320 -11.619 0.00 0.00 8 N ALA B 2 -10.375 19.227 9.769 0.00 0.00 6 CA ALA B 2 -9.739 18.142 -10.500 0.00 0.00 6 CB ALA B 2 -9.739 18.142 -10.500 0.00 0.00 6 C ALA B 2 -9.018 17.202 9.536 0.00 0.00 6 O ALA B 2 -9.018 17.202 9.536 0.00 0.00 6 O ALA B 2 -9.043 17.385 -8.320 0.00 0.00 6 N GLU B 2 -8.375 16.195 -10.109 0.00 0.00 7 CA GLU B 2 -8.375 16.195 -10.109 0.00 0.00 6 C GLU B 2 -8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 -8.396 11.355 -8.998 0.00 0.00 6 O GLU B 2 -7.824 10.329 -8.569 0.00 0.00 8 O GLU B 2 -7.824 10.329 -8.569 0.00 0.00 8 O GLU B 2 -8.396 11.355 -8.998 0.00 0.00 8 O GLU B 2 -8.396 11.355 -8.998 0.00 0.00 6 O GLU B 2 -8.386 11.289 -9.684 0.00 0.00 8 C GLU B 2 -5.181 15.144 -9.719 0.00 0.00 6 O GLU B 2 -5.844 15.155 10.903 0.00 0.00 6 N LEU B 2 -5.814 15.093 -8.714 0.00 0.00 5	0_	TYR	В	2	-12.119	27.462	.7.572	0.00	0.00	18
O TYR B 2 -11.028 20.320 -11.619 0.00 0.00 8 N ALA B 2 -10.375 19.227 9.769 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	C		В	2	-10.996	20.221	-10.393	0.00	0.00	6
N ALA B 2 -10.375 19.227 -9.769 0.00 0.00 7 CA ALA B 2 -9.739 18.142 10.500 0.00 0.00 6 CB ALA B 2 -9.739 18.142 10.500 0.00 0.00 6 C ALA B 2 -9.018 17.202 9.535 0.00 0.00 6 O ALA B 2 -9.043 17.385 -8.320 0.00 0.00 8 N GLU B 2 -8.375 16.196 -0.109 0.00 0.00 6 CA GLU B 2 -7.653 15.197 9.338 0.00 0.00 6 CG GLU B 2 -8.294 13.825 -9.577 0.00 0.00 6 C GLU B 2 -8.294 13.825 -9.577 0.00 0.00 6 C GLU B 2 -8.396 11.355 -8.998 0.00 0.00 6 C GLU B 2 -8.396 11.355 -8.998 0.00 0.00 6 C GLU B 2 -9.436 11.329 -9.684 0.00 0.00 6 C GLU B 2 -9.436 11.289 -9.684 0.00 0.00 8 C GLU B 2 -5.181 15.144 9.719 0.00 0.00 6 C GLU B 2 -5.844 15.155 10.993 0.00 0.00 6 N LEU B 2 -5.844 15.053 3.714 0.00 0.00 8 N LEU B 2 -5.814 15.093 3.973 0.00 0.00 8					-11.028	20.320		0.00	0.00	8
CA ALA B 2 -9.739 18.142 -10.500 0.00 0.00 6 CB ALA B 2 -8.755 18.680 -11.528 0.00 0.00 6 C ALA B 2 -9.018 17.202 -9.56 0.00 0.00 6 O ALA B 2 -9.043 17.385 -8.320 0.00 0.00 .00 N GLU B 2 -8.375 16.195 -10.109 0.00 0.00 .00 CB GLU B 2 -7.653 15.197 -9.338 0.00 0.00 .6 CB GLU B 2 -7.853 15.197 -9.338 0.00 0.00 .6 CB GLU B 2 -7.894 11.3855 -9.577 0.00 0.00 .6 C GLU B 2 -7.824 10.329 -8.569 0.							-9.769	0.00	0.00	7
CB ALA B 2 8.755 18.680 11.528 0.00 0.00 6 C ALA B 2 9.018 17.202 9.536 0.00 0.00 5 O ALA B 2 9.043 17.385 8.320 0.00 0.00 8 N GLU B 2 8.375 16.196 10.109 0.00 0.00 6 CA GLU B 2 7.653 15.197 9.338 0.00 0.00 6 CB GLU B 2 8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 7.809 12.712 8.670 0.00 0.00 6 O GLU B 2 8.396 11.355 8.998 0.00 0.00 6 O GLU B 2 7.824 10.329 8.569 0.00 0.00 8 O GLU B 2 6.181 15.144 9.719 0.00 0.00 8 C GLU B 2 5.844 15.155 10.903 0.00 0.00 8 N LEU B 2 5.314 15.093 8.714 0.00 0.00 8 N LEU B 2 5.314 15.093 8.714 0.00 0.00 8								0,00	0.00	6
C ALA B 2 9.018 17.202 9.535 0.00 0.00 6 O ALA B 2 9.043 17.385 8.320 0.00 0.00 8 N GLU B 2 8.375 16.195 10.109 0.00 0.00 7 CA GLU B 2 8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 9.436 11.289 9.684 0.00 0.00 8 C GLU B 2 9.436 11.289 9.684 0.00 0.00 8 C GLU B 2 5.814 15.144 9.719 0.00 0.00 8 N LEU B 2 5.844 15.155 10.993 0.00 0.00 8 N LEU B 2 5.314 15.083 8.714 0.00 0.00 8 C GLU B 2 3.879 14.936 8.973 0.00 0.00										6
O ALA B 2 9.043 17.385 8.320 0.00 0.00 8 N GLU B 2 8.375 16.196 10.109 0.00 0.00 7 CA CLU B 2 7.653 15.197 9.338 0.00 0.00 6 CB GLU B 2 8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 O GLU B 2 9.436 11.289 9.684 0.00 0.00 8 C GLU B 2 6.181 15.144 9.719 0.00 0.00 6 C GLU B 2 5.344 15.155 10.903 0.00 0.00 6 N LEU B 2 5.314 15.083 8.714 0.00 0.00 7 CA LEU B 2 3.879 14.936 8.973 0.00 0.00 6		1.								6
N GLU B 2 8.375 16.196 .0.109 0.00 0.00 7 CA GLU B 2 7.653 15.197 9.338 0.00 0.00 6 CB GLU B 2 8.294 13.825 9.577 0.00 0.00 6 C GLU B 2 7.809 12.712 8.670 0.00 0.00 6 C GLU B 2 8.396 11.355 8.998 0.00 0.00 6 O GLU B 2 9.436 11.355 8.998 0.00 0.00 8 O GLU B 2 9.436 11.289 9.684 0.00 0.00 8 C GLU B 2 6.181 15.144 9.719 0.00 0.00 6 C GLU B 2 5.844 15.155 10.903 0.00 0.00 6 N LEU B 2 5.314 15.083 8.714 0.00 0.00 7 CA LEU B 2 3.879 14.936 8.973 0.00 0.00 6	_		_	-						8
CA GLU B 2 -7.653 15.197 -9.338 0.00 0.00 6 CB GLU B 2 -8.294 13.825 -9.577 0.00 0.00 6 C GLU B 2 -7.809 12.712 -8.670 0.00 0.00 6 C GLU B 2 -8.396 11.355 -8.998 0.00 0.00 6 O GLU B 2 -7.824 10.329 -8.569 0.00 0.00 6 O GLU B 2 -9.436 11.289 -9.684 0.00 0.00 8 C GLU B 2 -5.814 15.144 -9.719 0.00 0.00 6 O GLU B 2 -5.814 15.193 -9.684 0.00 0.00 6 N LEU B 2 -5.314 15.093 -8.714 0.00 0.00 8 N LEU B 2 -5.314 15.093 -8.714 0.00 0.00 6 CA LEU B 2 -3.879 14.936 -8.973 0.00 0.00 6	_		_							
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C GLU B 2 -8.181 15.144 -9.719 0.00 0.00 0.00 O GLU B 2 -5.844 15.155 -10.993 0.00 0.00 8 N LEU B 2 -5.314 15.083 8.714 0.00 0.00 0.00 CA LEU B 2 -3.879 14.936 -8.973 0.00 0.00 0.00	٥	LGLU	B	2	-9.436	11,289	-9.684			8
O GLU B 2 5.844 15.155 10.903 0.00 0.00 8 N LEU B 2 5.314 15.083 8.714 0.00 0.00 7 CA LEU B 2 3.879 14.936 8.973 0.00 0.00 6			B	2	-6.181	15.144	-9.719	0.00	0.00	6
N LEU B 2 -5.314 15.083 8.714 0.00 0.00 7 CA LEU B 2 -3.879 14.936 8.973 0.00 0.00 6	0	GLU	В	2	-5.844	15.155	-10.903	0.00	0.00	18
CA LEU B 2 -3.879 14.936 -8.973 0.00 0.00 6			_				-8.714	0.00	0.00	17
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<u>c </u>	LEU	3	2	-1.005	10.000	-6.980	0.00	0.00	6
C	LEU	3	2	-0.754	14.976	-8.775	0.00	0.00	6
С	LEU	В	2	-3.657	10.74-	-9.133	0.00	0.00	6
0	LEU	В	2	-3.958	12.694	-8.188	0.00	0.00	8
N	VAL	В	2	-3.337	12.963	-10.335	0.00	0.00	7
CA	VAL	В	2	-3.267	11.527	-10.582	0.00	0.00	6
CB	VAL	В	2	-4.193	11.094	-11.743	0.00	0.00	6
흣	VAL	В	2	-5.657	11.300	-11.386	0.00	0.00	6
C C	VAL	В	2	-3.845	11.841	-13.021 -10.886	0.00	0.00	6
0	VAL VAL	В	2	-1.870	9.791	-10.859	0.00	0.00	8
N	GLY	В	2	-1.669 -0.927	11.891	-11.202	0.00	0.00	7
CA	GLY	В	2	0.427	11.452	-11.517	0.00	0.00	6
C	GLY	В	2	1.485	12.468	11.115	0.00	0.00	6
ŏ	GLY	В	2	1.280	13.678	-11.198	0.00	0.00	8
N	PHE	В	2	2.636	11.965	-10.676	0.00	0.00	7
CA	PHE	В	2	3.762	12.806	-10,292	0.00	0.00	6
CB	PHE	В	2	3,755	13.148	-8.806	0.00	0.00	6
C.	PHE	В	2	4.902	13.995	-8.332	0.00	0.00	6
C	PHE	В	2	5.382	15.057	-9.078	0.00	0.00	6
C	PHE	В	2	5.499	13.730	-7.107	0.00	0.00	6
CE	PHE	В	2	6.443	15.824	-8.636	0.00	0.00	6
CE	PHE	В	2	6.550	14.500	-6.648	0.00	0.00	6
CZ	PHE	В	2	7.023	15.550	-7.415	0.00	0.00	6
C	PHE	В	2	5.070	12.117	-10.674	0.00	0.00	6
0	PHE	В	2	5.341	11.005	-10.222	0.00	0.00	8
N	GLY	В	2	5.865	12.776	-11.508	0.00	0.00	7
CA	GLY	B	2	7.131	12.224	-11.963	0.00	0.00	6
Š-	GLY	B B	2	8.295 8.178	13.171	-11.707 -11.829	0.00	0.00	8
O N	MET	В	2	9.434	12,601	-11.324	0.00	0.00	7
CA	MET	В	2	10.638	13.354	-11.031	0.00	0.00	6
CB	MET	В	2	10.944	13.387	-9.536	0.00	0.00	6
С	MET	В	2	9.980	14,105	-8.618	0.00	0.00	6
SD	MET	В	2	10.100	13.489	-6.924	0.00	0.00	1
CE	MET	В	2	11.710	14.122	-6.467	0,00	0.00	6
C	MET	В	2	11.858	12.722	-11,707	0.00	0.00	6
0	MET	B	2	11.936	11.502	-11.829	0.00	0.00	8
N	SER	В	2	12.835	13.552	-12,046	0.00	0.00	7
CA	SER	В	2	14.077	13.066	-12.629	0.00	0.00	6
CB	SER	В	2	13.865	12.763	-14.119	0.00	0.00	6
0_	SER	<u>B</u>	2	13.967	13.968	-14.866	0.00	0.00	8
č	SER	В	2	15.192	14.099 15.237	-12.499 -12.098	0.00	0.00	8
O N	SER	B	2	14.964 16.398	13.704	-12.890	0.00	0.00	7
CA	SER	В	2	17.540	14.596	-12.941	0.00	0.00	6
CB	SER	В	2	18.550	14.439	-11.817	0.00	0.00	6
ŏ.	SER	В	2	18.007	13.920	-10.628	0.00	0.00	8
C.	SER	В	2	18.254	14.375	-14.282	0.00	0.00	6
ŏ	SER	В	2	18.226	13,269	-14.814	0.00	0.00	8
Z	ASP	В	2	18.891	15.424	-14.780	0.00	0.00	7
CA	ASP	В	2	19.598	15.372	-16.043	0.00	0.00	6
CB	ASP	В	2	19,708	16.779	-16.645	0.00	0.00	6
С	ASP	В	2	18.425	17.292	-17.259	0.00	0.00	6
0_	ASP	В	2	17,466	16.505	-17.390	0.00	0.00	8
0_	ASP	В	2	18.399	18.493	-17.601	0.00	0.00	8
<u>c</u>	ASP	B	2	21.019	14.838	-15,912	0.00	0.00	6
0	ASP	B	2	21.535	14.204	-16.831	0.00	0.00	8
N	ALA	B	2	21.673	15.143	-14.796	0.00	0.00	6
CA	ALA.	B	2	23,050	14.717	-14.562	0.00	0.00	6
CB	ALA.	B	2	23.097	13.220	-14.305 -15.764	0.00	0.00	6
Ç_	ALA	B	2	23.902	15.113 14.286	-15.764	0.00	0.00	8
N.	ALA	B	2	24.583	16.393	-16.119		0.00	7
	TYR	LB.	16	23.848	170.020	<u> </u>	<u>, v.vv</u>	, v.vv	لنب

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CA	TYR	B	2	24.503			0.00		6
CB	TYR	B	2	23.451	17.038	-18.431 10.738		0.00	6
C	TYR	₽	2	24.048	17.513	-19.738		0.00	6
C	TYR	픠	2	24,764	16.646	-20.552 -21.735		0.00	6
CE	TYR	픠	2	25.328	17.085	-21./35 -20.138 i	0.00	0.00	6
С	TYR	핅	2	23.920	18.836	-20.136	0.00	0.00	6
CE	TYR	핅	2	24.481	19.285	-21.317	0.00	0.00	6
CZ	TYR	В	2	25.184	18.403		0.00	0.00	8
0	TYR	В	2	25.745	18.844	-23.288	0.00		6
C	TYR	В	2	25.213	18.225	-17.058	0.00	0.00	8
0	TYR	В	2	26.443	18,260	·16,980	0.00	0.00	7
N	HIS	В	2	24.468	19.317	-16.925			6
CA	HIS	В	2	25.063	20,628	·16.677	0.00	0.00	6
CB	HIS	В	2	25.120	21.431	17.973	0.00	0.00	6
C	HIS	В	2	25.949	22,675	-17.927			6
<u>L</u>	HIS	В	2	27.279	22.868	-18.087	0.00	0.00	7
N	HIS	В	2	25.406	23.923	-17.701	0.00	0.00	_
CE	HIS	В	2	26.363	24.831	-17,719	0.00	0.00	7
N	HIS	В	2	27.510	24.217	17.952	0.00	0.00	6
C	HIS	В	2	24.288	21.375	15.598	0.00	0.00	
Р	HIS	В	2	23.085	21.157	-15.436	0.00	0.00	8
Z	MET	В	2_	24.946	22.292	-14.889	0.00	0.00	7
CA	MET	В	2	24.297	23.020	13.806	0.00	0.00	6
CB	MET	В	2	25.284	23,763	-12.915	0.00	0.00	6
C	MET	B	2	26.479	24.423	-13.565	0.00	0.00	6
SD	MET	В	2	27.340	25.556	-12.453	0.00	0.00	
CE	MET	B	2	28,762	24.575	-11.990	0.00	0.00	6
C	MET	B.	2	23,192	23,954	-14.283	0.00	0.00	16
0	MET	В	2	22.242	24.177	-13,521	0.00	0.00	8
N	THR	B	2	23,280	24.496	-15.491	0.00	0.00	17
CA	THR	В	2	22.249	25,396	-15,991	0.00	0.00	6
CB	THR	<u> </u>	2	22.776	26.836	16.144	0.00	0.00	8
0	THR	↓B	2	24.147	26.806	-16.565	0.00	0.00	_
C	THR	<u> B</u>	2	22,665	27.584	-14.824	0.00	0.00	16
C	THR	B	2	21.657	24.943	-17.31B	0.00	0.00	15
0	THR	В	2	20.454	25.103	-17.539	0.00	0.00	18
N_	SER	B	2	22,480	24.384	-18,196	0.00	0.00	_
CA	SER	↓B.	2	22.012	23,923	19.495	0.00	0.00	16
CB	SER	<u> </u>	2	23.128	24.054	-20.538	0.00	0.00	8
0	SER	↓B	2	23,448	25,410	-20,790	0.00	0,00	
C	SER	<u> B</u>	2	21.533	22,477	-19.459	0.00	0.00	6
10	SER	<u>↓B</u>	12	22,118	21.612	-18.811	0.00	0.00	<u>8</u> 7
N	PRO	B	12	20.485	22.196	-20.221	0.00	0.00	_
LC_	PRO	B	12	19.715	23.172	21.033	0.00	0.00	6
CA	PRO	Į₿.	2	19.932	20.860	-20,357	0.00	0.00	6
CB		<u>↓B</u>	2	18,460	21.148	-20.623	0.00		6_
C	PRO	<u> </u>	2	18.445	22.437	-21.365	0.00	0.00	6
C	PRO	Į₿.	12	20.565	20.112	-21,518	0.00		18
0	PRO	B	12	21.197	20.714	-22.390	0.00		7
N	PRO	<u> </u>	12	20.414	18.795	-21,539	0.00		
C	PRO	<u>↓B</u>	12	19.641	18.000		0.00	T	6
CA		<u> B</u>	12	20,896	17.984	-22.643	0.00	_	6
CB			12	20.726	16.551	-22,173	10.00		6
C	PRO		12	19.915	16.576		0.00		6
C	PRO		12	20.079	18.275				
0	PRO		12	18,844	18.264		0.00		18
N	GLU		12	20.721	18.449				17
CA	GLU	I B	12	20.025	18.704				16
CE			2	21.031	18.855		0.00		16
C	GLU	<u>l</u> B	12	22,096	19.912				16
C	GLU		2	22,372	20.788				6
0	GLU		2	23,395	20.565		T		8
O	IGLU	J B							8
Č	GLU			18,991	17.627	26,599) I 0.00) 0.00	6

									-
0.1	GLU	В	2	17.914		-27.146		0.00	8
N	ASN	В	2	19.270	16.400	-26.211	0.00	0.00	7
CA	ASN	В	2	18.435	15.232	-26.207	0.00	0.00	6
CB	ASN	В	2	19.172	14.173			0.00	6
			2	13.845	12,748		0.00	0.00	6
Č	ASN	В					0.00	0.00	8
0	ASN	В	2	19.753	11.936				7
N	ASN	В	2	17.563	12.424		0.00	0.00	
C	ASN	B_	2	17.071	15.424	-25.550	0.00	0.00	6
0	ASN	В	2	16.066	14.871	-25.996	0.00	0.00	8
N	GLY	В	2	17.065	16.049	-24.372	0.00	0.00	7
ÇA	GLY	В	2	15.866	16.222	-23.566	0.00	0.00	6
			2	15.598	14.984	-22.712	0.00	0.00	6
<u>c</u>	GLY	B			14.758	-22.223	0.00	0.00	8
<u> </u>	GLY	В	2	14.492					7
N	ALA	<u>B</u>	2	16.622	14.173	-22.501	0.00	0.00	
CA	ALA	B	2	16.575	12.927	-21.771	0.00	0.00	6
СВ	ALA	В	2	17.997	12.361	-21.662	0.00	0.00	6
С	ALA	В	2	15.955	12.959	-20.385	0.00	0.00	6
ŏ	ALA	В	2	15.249	12.014	-20,012	0.00	0.00	8
z	GLY	В	2	16.284	13.950	-19.564	0.00	0.00	7
		В	2	15,732	14.032	-18.215	0.00	0.00	6
CA	CLY	_				-18.254	0.00	0.00	6
C	GLY	В	2	14.264	14.437		ļ	0.00	8
0	GLY	Į₿.	2	13.456	13.967	-17.452	0.00		7
N	ALA	<u>B</u>	2_	13.921	15.313	-19.193	0.00	0.00	_
CA	ALA	В	2	12.549	15.782	-19.358	0,00	0.00	6
CB		В	2	12.508	16.914	-20.373	0.00	0.00	6
С	ALA	В	2	11.638	14.633	-19.775	0.00	0.00	6
ŏ	ALA	В	2	10.537	14.466	-19.251	0.00	0.00	8
		В	2	12.125	13.781	-20,672	0.00	0,00	7
N	AIA	_			12.585	-21.094	0.00	0.00	6
CA	ALA	₽.	2	11.409				0.00	6
CB		<u>↓B</u>	12	12,212	11.839	-22,151	0.00		6
<u>C</u>	ALA	B	12	11.158	11.665	-19.904	0.00	0,00	
0	ALA	В	2	10.040	11.206	-19,674	0.00	0.00	8
N	LEU	В	2	12,207	11.418	-19.123	0.00	0.00	17
CA	LEU	В	2	12.127	10.568	-17.944	0.00	0.00	6
CH		В	2	13.483	10.549	-17.234	0.00	0.00	16
	LEU	B	. 2	14.093	9.186	-16.906	0.00	0.00	6
<u>c</u>					9.365	-16.133	0.00	0.00	6
Č	LEU	1 <u>B</u>	12	15.393	8.312	-16,125	0.00	0.00	6
C	LEU	₽	12	13.122			0.00	0.00	6
C	LEU	↓B	12	11.044	11.001	-16.966	_		
0	LEU	B	2	10,249	10.182	-16.499	0.00	0.00	8
N_	ALA	B	2	10.992	12,293	-16.648	0.00	0.00	7
CA	ALA	ТΒ	2	9.989	12.831	-15.736	0.00	0.00	6
CE		В	_	10.311	14.279	-15.395	0.00	0.00	16
C	ALA	B		8,580	12,703	-16,305	0,00	0.00	6
0	ALA	B		7,642	12.413	-15.555	0.00	0.00	8_
					12.909	-17.614	0.00	0.00	7
N	MET	_	_	8.424			0.00	0.00	6
CA				7.111	12,712	-18.239			6
CI	MET			7.060	13.311	-19.636	0.00	0.00	
C	MET	13	1 2	7.126	14.834	-19.637	0.00	0.00	16
SI		_	2	6,856	15.558	-21.262	0.00	0.00	44
CI		_	_	8.526	15.634	-21,899	0.00	0.00	16
C	ME	_	_	6.802	11.220		0.00	0.00	6
		_		5.763	10,790		0.00		8
10	ME						0.00	_	7
N	ALA	4		7.773	10,402		$\overline{}$		6
<u> C/</u>				7.647	8.952	-18.540		_	6
C	BIALA			8.954	8,281	-18.938			_
C	ALA	. TE	3 2	7.235	8.493	-17.145			16
o	ALA	$\overline{}$		6.285	7.716	-17.030	0.00	0.00	8
N	ASN	_		7.901	8.968	-16,094		0.00	7
_		_	_	7.583	8,566	-14.733			6
- C					9.075	-13.730			6
C				8.627		-13.750	_	_	6
1C	LASI			9,949	8.343				8
0	IASN	Ш	3.12		7,167	-14.216			
N			B 2	11.042	9.034	-13.551	0.00	0.00	17

			_				1		-
C	ASN	В	2	6.197	8.998	-14.279	0.00	0.00	5
0	ASN	3	2	5.503	8.220	-13.619	0.00	0.00_	8
N	ALA	В	2	5,777	10.216	-14.603	0.00	0.00	7
CA	ALA	В	2	4.454	10.699	-14.218	0.00	0.00	6
CB	ALA	В	2	4.306	12.172	14.556	0.00	0.00	6
C	ALA	В	2	3.368	9.877	-14.905	0.00	0.00	6
0	ALA.	B	2	2.352	9.517	-14.309	0.00	0.00	8
N	LEU	В	2_	3.579	9.576	-16.183	0.00	0.00	7
CA	LEU	В	2	2.697 ~	8.712	-16.953	0.00	0,00	6
СВ	LEU	В :	2	3.249	8.513	-18.366	0.00	0,00	6
C	LEU	В	2	3.101	9.673	19.350	0.00	0.00	6
Č	LEU	В	2	3.754	9.327	-20.681	0.00	0.00	6
č	LEU	В	2	1.639	10.039	-19.560	0.00	0.00	6
č	LEU	В	2	2.529	7.358	-16.271	0.00	0.00	6
ŏ		В	2	1.414	6.913	-16.001	0.00	0.00	8
	LEU	В	2		6.713	·15.949	0.00	0.00	7
N	ARC	_	_	3.649	5,420	-15.266	0.00	0.00	6
CA	ARG	B	2	3.632		-15.124	0.00	0.00	6
CB	ARG	В	2	5.055	4.885		0.00	0.00_	6
C	ARG	В	2	5.269	3.835	-14.048		0.00	6
C	ARG	В	2	6.689	3.295	-14.066	0.00		7
N	ARG	В	2_	7.635	4.187	-13.408	0.00	0.00	$\overline{}$
CZ	ARG	В	2	8.956	4.067	-13.453	0.00	0.00	6
N	ARG	В	2	9.524	3.079_	-14.131	0.00	0.00	7
N	ARG	В	2	9.724	4.941	-12.814	0.00	0.00	7
C	ARG	В	2	2.935	5.532	-13.917	0.00	0.00	6
0	ARG	В	2	2.078	4.719	-13.573	0,00	0.00	8
N_	ASP	В	2	3.191	6.610	-13.186	0.00	0.00	7
CA	ASP	В	2	2.559	6.904	·11.916	0.00	0.00	6
ÇВ	ASP	В	2_	3,171	8.182	-11.323	0.00	0.00	6
[C_	ASP	В	2	2.856	8.314	-9.846	0.00	0.00	6
0.	ASP	В	2	2.518	9.432	-9.411	0.00	0.00	8
0	ASP	В	2	2,940	7.293	-9.132	0.00	0.00	8
C_	ASP	В	2	1.046	7.058	-11.994	0.00	0.00	6
0	ASP	В	2	0.359	6.775	-11.009	0.00	0.00	8
N	ALA	В	2	0.513_	7.523	-13.118	0.00	0.00	17
CA	ALA	В	2	-0.922	7.681	-13.301	0.00	0.00	6
СВ	ALA	В	2	-1.223	8,916	-14.135	0.00	0.00	6
C	ALA.	В	2	-1.516	6,439	-13.964	0.00	0.00	6
0	ALA	В	2	-2.692	6,123	-13.796	0.00	0.00	8
N	GLY	В	2	-0.686	5.728	-14,719	0.00	0.00	7
CA	GLY	В	2	-1,103	4.503	-15.387	0.00	0.00	6
C	GLY	В	2	-1.918	4.797	-16.638	0.00	0.00	6
ŏ	GLY	В	2	-2.958	4.188	-16.884	0,00	0,00	8
N	ILE	В	2	-1.489	5.803	17.390	0.00	0.00	7
	ILE	B	2	-2.135	6.185	18.635	0.00	0.00	6
CA		В	2	-2.941	7.490	-18.545	0.00	0.00	6
		B	2	-4.284	7.276	-17.859	0.00	0.00	6
<u> </u>	ILE		2	-2.148	8.580	-17.820	0.00	0.00	6
C_	ILE	B			9.986	-18.178	0.00	0,00	6
<u> ç</u>	ILE	B	12	-2.581			0.00	0.00	6
<u>c</u>	ILE.	B	12	-1.054	6.345	-19,704	_	0.00	8
0_	ILE	<u>B</u>	2	0.106	6.569	19.357	0.00		17
N	GLU	<u> </u>	2	1.433	6.212	20.968	0.00	0.00	+
. CA	GLU	↓B	2	-0.451	6.387	-22.040	0.00	0.00	6
	GLU	В.	2	-0.771	5.479	-23.223	0.00	0.00	6
CB		1 -	2	-0.617	3.998	-22,905	0.00	0.00	16
CB	GLU	Į₿.			3.145	-24.149	0.00	0.00	16
_	GLU	B	2	1-0.460	10.440				
CC	GLU	В	_	-0.460	2.230	-24.354	0.00	0.00	181
ပ ပ ပ	GLU GLU	B B	2	-1,287			0.00	0.00	8
0000	GLU GLU	B B	2 2 2	-1.287 0.491	2.230 3.388	-24.354			_
0000	GLU GLU GLU	B B B	2 2 2 2	-1.287 0.491 -0.401	2.230 3.388 7.855	-24.354 -24.922 -22.436	0.00	0.00	8
00000	GLU GLU GLU	B B B	2 2 2 2 2	-1.287 0.491 -0.401 -1.285	2.230 3.388 7.855 8.634	-24.354 -24.922 -22,436 -22.071	0.00	0.00	8
000002	GLU GLU GLU GLU ALA	B B B B	2 2 2 2 2 2	-1.287 0.491 -0.401 -1.285 0.594	2.230 3.388 7.855 8.634 8.245	-24.354 -24.922 -22.436 -22.071 -23.220	0.00 0.00 0.00 0.00	0.00 0.00 0.00	8 6 8
00000XA	GLU GLU GLU GLU ALA ALA	B B B B B	2 2 2 2 2 2 2 2	-1.287 0.491 -0.401 -1.285 0.594 0.770	2.230 3.388 7.855 8.634 8.245 9.620	-24.354 -24.922 -22.436 -22.071 -23.220 -23.657	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8 6 8 7 6
000002	GLU GLU GLU GLU ALA ALA	B B B B	2 2 2 2 2 2	-1.287 0.491 -0.401 -1.285 0.594	2.230 3.388 7.855 8.634 8.245	-24.354 -24.922 -22.436 -22.071 -23.220 -23.657 -24.387	0.00 0.00 0.00 0.00	0.00 0.00 0.00	8 6 8 7

0 1	ALA	В	2 1	-0.518	11.392	-24.609	0.00	0,00	8
N	SER	B.	2	-1.137	9.337	-25.190	0.00	0.00	7
CA	SER	В	2	-2.220	9.753	-26.061	0.00	0.00	6
CB	SER	В	2 !	-2.484	8.658	-27.106	0.00	0.00	6
0	SER	В	2	-3.091	7.533	-26.492	0.00	0.00	8
C.	SER	В	2	-3.518	10.076	-25.337	0.00	0.00	6
0 !	SER	В	2	-4.542	10.359	-25.965	0.00	0.00	8
N	GLN	В	2	-3.509	10.047	-24.013	0.00	0.00	7
CA		В	2	-4.668	10.363	-23.192	0.00	0.00	6
CB	GLN	В	2	-4.827	9.353	-22.058	0.00	0.00	6
Č.	GLN	В	2	-5.411	8.026	-22.514	0.00	0.00	6
č	GLN	В	2	-5.194	6.897	-21.531	0.00	0.00	6
ō	GLN	В	2	-5.872	6.804	-20.506	0.00	0.00	8
		В	2	-4.244	6.019	-21.837	0.00	0.00	7
N	GLN		2	4.523	11.789	-22.658	0.00	0.00	6
Š	GLN	В			12.355	-22.059	0.00	0.00	8
흱	GLN	В	2	-5.433		-22.904	0.00	0.00	7
N	ILE	В	2	-3.356	12.376		0.00	0.00	6
CA	ILE	В	2	-3.062	13.745	-22.523			
CB	ILE	B	2	-1.568	13.957	-22.207	0.00	0.00	6
<u>c</u>	ILE	В	2	-1.273	15.420	-21.897	0.00	0.00	6
<u>c</u>	ILE	В	2	-1.110	13.054	-21.063	0.00	0.00	6
C_	ILE	В.	2	-1.688	13.362	-19.702	0.00	0.00	6
ᄗ	ILE	В	2	-3.459	14,705	-23.644	0.00	0.00	6
0	ILE	В	2	-2.932	14.637	-24.753	0.00	0.00	8
N	GLY	В	2	-4.373	15.617	-23.335	0.00	0.00	7
CA	GLY	B	2	-4.821	16.601	-24.309	0.00	0.00	6
C_	GLY	LB_	2	-3,847	17.773	-24.385	0.00	0.00	6
0	GLY	В	2	-3.426	18.156	-25.478	0.00	0.00	8
N	TYR	B	2	-3.477	18.323	-23.231	0.00	0.00	7
CA	TYR	В	2	-2.646	19.522	-23.206	0.00	0.00	6
CB	TYR	B	2	-3.529	20.725	-22.877	0.00	0.00	6
C	TYR	B	2	-2.845	21.997	-22.443	0.00	0.00	6
C_	TYR	В	2	-3.068	22.517	-21,173	0.00	0.00	6
CE	TYR	LB.	2	-2,459	23,687	-20.759	0.00	0.00	6
C	TYR	<u>B</u>	12	-1.993	22,692	-23.290	0.00	0.00	6
CE	TYR	B	2	-1.384	23.866	-22.887	0.00	0.00	6
CZ	TYR	В	2	-1.620	24.357	-21.621	0.00	0.00	6
0	TYR	В	2	-1.016	25.527	-21.218	0.00	0.00	8
C	TYR	В	12	-1.473	19.443	-22.237	0.00	0.00	6
0	TYR	B.	2	-1.568	19.003	-21.096	0.00	0.00	8
N	VAL	B	3	-0.332	19.933	-22.716	0.00	0.00	7
CA	VAL	B	3	0.899	20.017	-21.955	0.00	0.00	6_
CB	VAL	B	3	2.073	19.317	-22.668	0.00	0.00	6
c	VAL	В	3	3.350	19.407	-21.839	0.00	0.00	6
C	VAL	В	3	1.754	17.860	-22,970	0.00	0.00	6
C	VAL	В	3	1.288	21.478	-21.725	0.00	0.00	6
0_	VAL	B	3	1.617	22.189	-22.675	0.00	0.00	18_
N	ASN	B	3	1.213_	21.932	-20,480	0.00	0.00	7
CA	ASN	В	3	1.764	23,246	-20,122	0.00	0.00	6
CB	ASN	В	3	1.188	23.777	-18.828	0.00	0.00	6
С	ASN	В	3	1,564	25.203	-18.499	0.00	0.00	6
0	ASN	В	3	0.786	26.131	-18.730	0.00	0.00	8
N	ASN	В	3	2.755	25.399	-17.946	0.00	0.00	7
C_	ASN	В	3	3.278	23.030	-20.032	0.00	0.00	6
ō	ASN	В	3	3.774	22.358	-19.130	0.00	0.00	. 8
N	ALA	В	3	3,984	23.535	-21.029	0.00	0.00	7
CA	ALA	В	3	5.415	23.350	-21.148	0.00	0.00	6
CB	ALA	В	3	5.829	23.721	-22.576	0.00	0.00	6
C	ALA	В	3	6.244	24.179	-20.183	0.00	0.00	6
6	ALA	В	3	5.771	25.171	-19.637	0.00	0.00	8
N	HIS	В	3	7.513	23.777	-20.037	0.00	0.00	7
CA	HIS	В	3	8.425	24.569	-19.205	0.00	0.00	6
CB	HIS	В	3	9.687	23.805	-18.825	0.00	0.00	6
					24.611	-17.954	0.00		6
ے	HIS	B	13	10.607	1 64.01	1 1 1 1 1 1 1 1	<u>, y.vu</u>	1 4.44	<u>. v</u>

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CB ASP B 3 12.801 26.400 .26.575 0.00 0.3 C ASP B 3 12.317 27.517 25.673 0.00 0.0 O ASP B 3 11.991 28.602 26.198 0.00 0.0 C ASP B 3 12.252 27.329 24.441 0.00 0.0 C ASP B 3 12.296 23.222 26.962 0.00 0.0 O ASP B 3 12.296 23.222 26.962 0.00 0.0 N LYS B 3 14.448 23.739 -27.349 0.00 0.0 CA LYS B 3 16.935 22.623 28.249 0.00 0.0 CB LYS B 3 16.065 22.758 28.915 0.00 0.0) 6
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C LYS B 3 17.541 23.929 -30.569 0.00 0.0	
CE LYS B 3 18.008 22.874 31.558 0.00 0.0	$\overline{}$
NZ LYS B 3 19.490 22.857 -31.699 0.00 0.0	
C LYS B 3 14.643 21.283 -27.521 0.00 0.0	
O LYS B 3 14.092 20.306 -28.027 0.00 0.0	
N ALA B 3 15.265 21.224 -26.346 0.00 0.0	0 17

CA	ALA	В	3	15.321	19,999	-25.558	0.00	0.00	6
CB	ALA !	_	3	16.151	20.211	-24.301	0.00	0.00	6
C	ALA	В	3	13.924	19.512	-25.199	0.00	0.00	6
0 1	ALA	В	3	13.580	18.357	-25.449	0.00	0.00	8
N	000	В	3	13.106	20.401	-24.642	0.00	0.00	7
CA	GLU	В	3	11.734	20.071	-24.292	0.00	0.00	6
CB	GLU	В	3	11.017	21.263	-23.650	0.00	0.00	6
C	227	В	3	9,583	20.941	-23.264	0,00	0.00	6
c	GLU	В	3	8.946	21.951	-22,340	0.00	0.00	6
0	CLU	В	3	9.409	23.108	-22.269	0.00	0.00	8
0	GLU	В	3	7.952	21.571	-21.682	0.00	0.00	8
C	GLU	В	3	10.956	19.598	-25.515	0.00	0.00	6
의	GLU	В	3	10.335	18.535	-25.473	0.00	0.00	8
N_	ALA	В	3	11.030	20.340	-26.616	0.00	0.00	7
CA	ALA	В	3	10.418	19.917	-27.874	0.00	0.00	6
CB	ALA	В	3	10.878	20.817	-29.012	0.00	0.00	6
C_	ALA	В	3	10,765	18.460	-28.169	0.00	0.00	6
0	ALA	В	3	9.903	17.589	-28.253	0.00	0.00	8
N	GLN	В	3	12,057	18.168	-28.245	0.00	0.00	7
CA	GLN	В	3	12.595	16.840	-28.467	0.00	0.00	6
CB	GLN	В	3	14.128	16.919	-28.418	0.00	0.00	6
C	GLN	В	3	14.837	15.647	-28.840	0.00	0.00	6
C_	GLN	В	3	14.676	15.342	-30,316	0.00	0.00	6
0	GLN	В	3	15.369	15.914	-31.156	0.00	0.00	8
N	GLN	B	3	13,752	14.439	-30.630	0.00	0.00	7
C_	GLN	В	3	12.106	15.797	-27.473	0.00	0.00	6
0	GLN	В	3	11.875	14.642	-27.844	0,00	0.00	8_
N_	ALA_	B	3_	11.921	16.171	-26.211	0.00	0.00	7
CA	ALA	В	3	11.429	15.277	-25.178	0.00	0.00	6
CB	ALA	B	3	11.680	15.890	-23.803	0.00	0.00	6.
Ç_	ALA	B	3	9.950	14.942	-25.329	0.00	0.00	6
0	ALA	<u>B</u>	3	9.512	13.883	-24.874	0.00	0.00	8
Ŋ	VAL	B	3	9.171	15.827	-25.938	0.00	0.00	7
CA	VAL	В	3	7.748	15.592	-26,168	0.00	0.00	6
CB	VAL	B	3	6.977	16.904	-26.378	0.00	0.00	6
<u>c</u>	VAL	В	3	5.548	16.665	-26,846	0.00	0.00	6
C.	VAL	В	3	6.973	17.714	-25.087	0.00	0.00	16
C	VAL	B	3	7.563	14.663	-27,364	0.00	0.00	8
0_	VAL	В	3	6.690	13.795	-27.365	0.00	0.00	7
N	LYS	В	3	8.449	14,789	-28.349	0.00	0.00	6
CA	LYS	₽.	3	8.452	13.883	-29,494		0.00	6
CB	LYS	В	3	9.497	14.318	-30.523	0.00	_	6
<u>c</u>	LYS	B	3	9.016	15,457	-31.412	0.00	0.00	7
C_	LYS	B	3	10.069	15.875	-32.425	0.00	0.00	6
CE	LYS	B	3	9.475	16.820	-33.459		0.00	7
NZ	LYS	B	3	10.515	17.393	-34,357	0.00		6
Ç.	LYS	B	3	8,698	12,454	-29.024	0.00	0.00	8
<u>o</u>	LYS	B	3	7.916	11.547	-29.302	0.00		7
N.	THR	B	3	9,715	12,270	-28.192	0.00	0.00	6
CA	THR	<u>B</u>	3	10,094	10.986	-27.636	0.00	0.00	_
CB	THR	B	3	11.373	11.151	-26.782	0.00	0.00	8
<u>o</u>	THR	B	3	12.357	11.863	-27.549	0.00	0.00	_
C_	THR	B	3	11.945	9.806	-26.372	0.00	0.00	6
Ç_	THR	В	3	9,024	10,301	-26.804	0.00	0.00	16
0_	THR	B	3	8.948	9.067	-26,804	0.00	0.00	7
N	ILE	В	3	8.212	11.046	-26.068	0.00		_
CA	ILE	В	3	7.196	10,469	-25.198	0.00		16
CB	ILE	В	3	7.000	11.363	-23.954	0.00		6
<u>c</u>	ILE	B	3	5.898	10.837	-23.051	0.00		6
C_	ILE	B	3	8.317	11.497	-23.183	0.00	7	16
C	ILE	B	3	8.916	10,202	-22,680	0.00		6
C	ILE	<u>B</u>	3	5.859	10.235	-25.880	0.00		16
0	ILE	В	3	5.240	9.188	-25.668	0.00		18
N	PHE	B	3	5.379	11,203	-26.651	0.00	0.00	17.

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CA	PHE	В	3	4.069	11.077	27.288	0.00	0.00	6
CB	PHE	В	3	3.425	12,453	-27,452	0.00	0.00	6
C	PHE	В	3	3.089	13.122	-26.147	0.00	0.00	6
C	PHE	B	3	4.076	13.702	-25.370	0.00	0.00	6
Ç.	PHE	В	3	1.779	13.179	-25.702	0.00	0.00	6
CE	PHE	B	3	3.770	14.318	-24.173	0.00	0.00	6
CE	PHE	B	3	1.464	13.796	-24.507	0.00	0.00	6
CZ	PHE	픠	3	2.461	14.366	-23.740	0.00	0.00	6
<u>c</u>	PHE	픠	3	4.151	10.329	28.610	0.00	0.00	8
0	PHE	В	3	3.231	9.594	-28.973 -29.320	0.00	0.00	7
N	GLY	В	3	5.262	10.477			0.00	6
CA	GLY	В	3	5.513	9.754	-30.551	0.00	0.00	6
C.	GLY	В	3	4.558	10.072	-31.687 -32.388	0.00	0.00	8
0.	GLY	В	3	4.725	11.071	-31.888	0.00	0.00	7
N	GLU	В	3	3.556	9.216	-32.975	0.00	0.00	6
CA	GLU	틧	3	2.598	8.053	-33.443	0.00	0.00	6
СВ		В	3	2.032	7.373	-34.517	0,00	0.00	6
بعا	GLU	<u>B</u>	3	2.877	6.164	-33.959	0.00	0.00	6
Š	GLU	В	3	3.606 4.772	6.319	-33.536	0.00	0.00	8
8	GLU	В	3	3.007	5.069	-33.934	0.00	0.00	8
2	GLU	B	3	1.483	10.355	-32.591	0.00	0.00	6
C	GLU	В	3	0.774	10.886	-33.445	0.00	0.00	8
И		В	3	1.335	10.608	-31.294	0.00	0.00	7
CA	ALA ALA	В	3	0.337	11.535	-30.782	0.00	0.00	6
СВ	ALA	В	3	-0.199	11.071	-29.440	0.00	0.00	6
C	ALA	В	3	0.940	12,935	-30.676	0.00	0.00	6
ŏ	ALA	В	3	0.246	13.911	-30.394	0,00	0.00	8
N	ALA	В	3	2.230	13.075	-30.953	0.00	0.00	7
CA	ALA.	В	3	2.949	14.336	-30.925	0.00	0.00	6
CB	ALA	В	3	4.334	14,165	-31.539	0.00	0.00	6
c	ALA	В	3	2.209	15,465	31,629	0.00	0.00	6
0	ALA	В	3	1.987	16.526	-31.034	0.00	0.00_	18
N	SER	В	3	1.768	15.252	-32.867	0,00	0.00	17
CA	SER	В	3	1.008	16.252	-33.606	0.00	0.00	6
CB	SER	В	3	1.018	15.950	-35,105	0.00	0.00	6
0	SER	В	3	0.886	14.563	35.359	0,00	0.00	18
С	SER	В	3	-0.427	16,377	-33,107	0.00	0.00	6
0	SER	В	3_	-1.106	17.376	-33,355	0.00	0.00	18
N	ARG	B	3	-0,914	15.383	-32.386	0.00	0.00	17
CA	ARG	ĮB.	3	-2.250	15.345	31.814	0.00	0.00	16
CB	ARG	B	3	-2.645	13.879	-31.647	0.00	0.00	6
C	ARG	B	3	-3.931	13.549	-30.920	0.00	0.00	6
C	ARG	В	3	-4.037	12.040	-30,737	0.00	0.00	7
N	ARG	B	3	-5.283	11.607	30,126	0.00	0.00	6
CZ	ARG	문	3	-5.609	10.334	-29.913 -30.262	0.00	0.00	17
N.	ARG	18	3	-4.782	9.358	-30.262	0.00	0.00	17
N	ARG	IB.	13	-6,769	10.031	-30.491	0.00	0.00	6
<u> </u>	ARG	B	3	2.340	16.094	-30.491	0.00	0.00	8
lö-	ARG	<u> B</u>	13	-3.429	16.526	-30.103	0.00	0.00	7
N	VAL	B	3	-1.225	16,271 16,946	-28.496	0.00	0.00	6
CA	VAL	B	3	-0.281	16.203	·27.515	0.00	0.00	6
CB	VAL	B	13	1.175	16.291	27.947	0.00	0.00	6
l C	VAL	B	3	-0,452	16.723	-26.095	0.00	_	6
<u> </u>	VAL	B	3	0.846	18.420	28.545	0.00		6
[문	VAL		_	0.085	18.843	29.227	0.00	0.00	8
유	VAL	HB B	3	-1.574	19.223	27,770	0.00		7
N	LEU	B	3	-1.349	20.659		0.00		6
CA		B	3	-2.665	21.409	-27.483	0.00		6
CB	LEU	+₽ B	13	-3.897	20.934		0.00	_	6
C	LEU	B	3	-5.090	21.833		_		6
C	LEU		13	-3.636	20.891	-29.751	0.00		6
C_	LEU		3	-0.380	21.022				6
10_	1			4.000					

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Q I	LEU	В	3	-0.563	20.670	-25.402	0.00	0.00	3
N	VAL	В	3	0.701	21.702	-26,934	0.00	0.00	7
CA		В	3	1.738	22.123	-26.006	0.00	0.00	6
CB	VAL	В	3	3.106	21.485	-26.333	0.00	0.00	6
Ç	VAL	В	3	4.155	21.927	-25,318	0.00	0.00	6
Ç.	VAL	В	3	3.050	19.970	-26.391	0.00	0.00	6
Ç	VAL	В	3	1.924	23.638	-26.057	0.00	0.00	6
0	VAL.	B	3	2.463	24.121	-27.055	0.00	0.00	8
N	SER	<u>B</u>	3	1.641	24.359	-24.978	0.00	0.00	7
CA	SER	В	3	1.861	25.803	-24.995	0.00	0.00	6
CB	SER	В	3	0.530	26.545	-25.111	0.00	0.00	6
0	SER	В	3	-0.123	26.629	-23.860	0.00	0.00	8
Ç_	SER	В	3	2.633	26.300	-23.779	0.00	0.00	6
0	SER	В	3	2.595	25.722	-22.696	0.00	0.00	8
N	SER	В	3	3.333	27.418	-23.971	0.00	0.00	7
CA	SER	В	3	4.047	28.069	-22.882	0.00	0.00	5
CB	SER	В	3_	5.502	28.345	-23.261	0.00	0.00	6
0	SER	В	3	6.179	29.065	-22,245	0.00	0.00	8
C	SER	В	3	3.344	29.366	-22.501	0,00	0.00	8
0	SER	В	3	3.392	30.358	-23.233	0.00	0.00	7
N	THR	B	3	2,798	29.409	-21.284 -20.775	0.00	0.00	6
ÇA.	THR	B	3	2.153	30.613	-19.712	0.00	0.00	6
<u>CB</u>	THR	B	3	1.081	30.328	-18.667	0.00	0.00	В
<u>Q</u>	THE	В	3	1.607	29.501 29.623	-20.347	0.00	0.00	6
Ç_	THR	В	3	-0.111 3,171	31.612	-20.240	0.00	0.00	6
듯	THR	B	3	2.842	32,728	-19.840	0.00	0,00	8
O N	LYS	В	3	4.452	31.269	-20,300	0.00	0.00	7
CA	LYS	В	3	5.579	32,098	-19.939	0.00	0.00	6
CB	LYS	В	3	6.839	31,259	-19.710	0.00	0.00	6
C	LYS	В	3	6.801	30.358	-18.485	0.00	0.00	6
C	LYS	В	3	8.207	29,950	-18.071	0.00	0.00	6
ČE	LYS	В	3	8,218	29.014	-16.880	0.00	0.00	6
NZ	LYS	В	3	7.415	27.785	-17.079	0.00	0.00	17
C	LYS	В	3	5.861	33.146	-21.017	0.00	0.00	6
0	LYS	В	3	6.609	34.098	-20.790	0.00	0.00	18
N	SER	В	3	5.209	33.042	-22,170	0.00	0.00	7
CA	SER	В	Тз.	5.228	34.043	-23.217	0.00	0.00	16
CB	SER	В	3	4.676	33.493	-24.533	0.00	0.00	16
Q_	SER	B	3	3.444	32.822	-24.356	0.00	0.00	8
C	SER	В	3	4.449	35.293	-22.812	0.00	0.00	6
0	SER	↓B	13	4.735	36.385	-23.305	0.00	0.00	8
N	MET	↓B	3	3.481	35.155	-21.918	0.00	0.00	17
CA	MET	В	3	2.696	36.271	-21.421	0.00	0.00	6
CB	MET	<u>B</u>	13	1.212	35.878	-21,389	0.00	0.00	6
<u>_</u> 2	MET	Į₿.	3	0.586	35.701	-22,763	0.00	0.00	ì
SD	MET	B	3	-0.997	34.844	-22.727	0.00	0.00	6
CE	MET	B	13	-0.458	33,139	-22.612	0.00	0.00	6
<u> </u>	MET	₽	13	3.121	36,682	-20.013 -19.643	0.00	0.00	8
بيرا	MET	B	13	3.198	37.849	-19.194	0.00	0.00	7
N.	THR	B	13	3.390	35.679	-19.194	0.00	0.00	6
CA	THE	₽	3	3.621	35.830 34.630	-17.084	0.00	0.00	6
CB	_	<u>B</u>	13	2.926	35.075	-15.930	0.00	_	8
0	THR	HB.	13	2.203	33.516	-16.701	0.00	0.00	6
<u>چ</u>	THR	₽	3	3.875	35.974	-17.399	0.00	_	6
<u> </u>	THR	₽	13	5.085	36.689	-16.457	0.00		8
18	THR	HB B	13	5.442	35.326	-18.170			7
N.	GLY	B	13	5.953 7.392	35.351	-17.903	0.00		6
ÇA	GLY	₽ B	13	7.707	34.127		0.00	_	6
Č	GLY	₽	13	6.813	33.323				8
18	GLY	井용	13	8.945	33.973		_		17
N.	HIS	↓B B	3	9.310	32.837				6
CA		B		10,700	32.331			_	6
1 0 5	HIS	ı Ø		1.44.144					

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C_	HIS	В	3	11.133	31.073	-15,448	0.00	0.00	6
$\lfloor c \rfloor$	HIS	В	3	10.483	30.190	-14.655	0.00	0.00	6
N	HIS	В	3	12,426	30.601	-15.559	0.00	0.00	7
CE	HIS	В	3	12.544	29.488	-14.868	0.00	0.00	6
N	HIS	В	3	11.380	29.212	-14.307	0.00	0.00	7
Ĉ.	HIS	В	3	9.253	33.231	-14.285	0.00	0.00	6
			3				0.00	0.00	8
0	HIS	В		10.070	34.028	-13.825			7
N	LEU.	В	3	8.370	32.596	-13.518	0.00	0.00	_
CA	LEU	В	3	9.182	32.913	-12.110	0.00	0.00	6
CB	LEU	В	3_	6.730_	32.778	-11.684	0.00	0.00	6
C	LEU	B	3	5.544	33.425	-12.363	0.00	0.00	6
C	LEU	В	3	4.547_	33.915	-11.311	0.00	0.00	6
			3	5.901	34.563	-13.303	0.00	0.00	6
Ç.	LEU	В					0.00	0.00	6
C	LEU	В	3	9.026	32.033	·11.187			_
0	LEU	В	3_	8.711	31.869	-10.007	0.00	0.00	8
N_{\perp}	LEU	В	3	10.095	31.456	-11.711	0.00	0.00	7
CA	LEU	В	3	11.003	30,600	-10.971	0.00	0.00	6
CB	LEU	В	3	12.016	31.480	-10.227	0.00	0.00	6
	LEU	В	3	13.104	32.076	-11.132	0.00	0.00	6
Ç							0.00	0.00	6
C	LEU	В	3_	13.851	33.194	-10.425			6
C	LEU	В	3	14.062	30.986	-11.588	0.00	0.00	_
C	LEU	В	3	10.287	29.628	-10.053	0.00	0.00	6
0	LEU	В	3_	9.577	28.748	-10.547	0.00	0.00	8
Z	GLY	В	3	10.319	29.841	8.743	0.00	0.00	7
CA	GLY	В	3	9.748	28.939	-7.767	0.00	0.00	6
		В	3	8.234	28.904	-7.708	0.00	0.00	6
<u> ç</u> _	GLY	_	_				0.00	0.00	8
	CLY	LB.	3	7.655	27.997	-7.105			
N	ALA	<u>B</u>	3	7.563	29.882	-8.305	0.00	0.00	17
CA	ALA	В	3	6.115	29,924	-8.366	0.00	0.00	6
CB	ALA	В	3	5.615	31.341	-8.116	0.00	0.00	6
C	ALA	В	3	5.619	29,461	9.734	0.00	0.00	6
ō	ALA	В	3	4.412	29.341	9.940	0.00	0.00	8
	ALA	В	3	6.539	29.238	-10.670	0.00	0.00	7
Ň.							0.00	0.00	6
CA.	ALA	В	3	6.176	28.868	-12.032			_
CB	ALA	B	3	7.395	28.787	-12.943	0.00	0.00	5
C	ALA	LB_	3	5.373	27.580	-12.097	0.00	0.00	6
0_	ALA	В	3	4.322	27.561	-12,734	0.00	0.00	8
N_	GLY	В	3	5.788	26.542	-11.392	0.00	0.00	7
CA	GLY	В	3	5.088	25.275	-11.340	0.00	0.00	6
	GLY	В	3	3.740	25.350	-10.641	0.00	0.00	6
<u> </u>			3			-10.908	0,00	0,00	8
0_	GLY	В.		2.865	24.521				7
N_	ALA	<u>B</u>	3	3.571	26,285	-9.714	0.00	0.00	_
CA	ALA	<u> B</u>	13	2.324	26.443	8.980	0.00	0.00	6
CB	ALA	<u>B</u>	13	2.567	27.214	-7.690	0.00	0.00	6
C	ALA	В	3	1.254	27.141	-9.815	0.00	0.00	6
o .	ALA	В	3	0.137	26.634	-9.944	0.00	0.00	8
$\overline{}$	VAL	В	3	1.602	28,281	-10.413	0.00	0.00	7
N			3		29.023	11.243	0.00	0.00	6
CA	VAL	B	_	0.664				0.00	6
CB	VAL	B	3	1.191	30.399	-11.691	0.00		_
C	VAL	B	3	1,454	31,293	-10.489	0.00	0.00	6
C	VAL	В	3	2.445	30.282	-12.543	0.00	0.00	6
C	VAL	В	3_	0.266	28.227	-12.482	0.00	0.00	6
0	VAL	В	3	-0.892	28,233	-12.896	0.00	0.00	8
	GLU	В	3	1.220	27.512	-13.064	0.00	0.00	7
N_		-				14.251	0.00	0.00	6
CA.	CLU	I B	3	1.018	26.706				_
CB	GLU	В	3	2.384	26.381	14.879	0.00	0.00	6
C	GLU	В	3	3.037	27.611	-15.485	0.00	0.00	6
C	GLU	В	3	4.467	27.395	-15.920	0.00	0.00	16
0	GLU	В	3	4.888	26.244	-16.143	0.00	0.00	8
0	GLU	В	3	5.187	28.405	-16.057	0.00	0.00	8
_		_				14.010	0.00	0.00	6
C	GLU	B	3	0.241	25.422				8
0	GLU	B	3	-0.316	24.863	14.960	0.00	0.00	_
N	SER	B	3	0.190	24.947	-12.770	0.00	0.00	7
CA	SER	В	3	-0.666	23.823	12,408	0.00	0.00	6

СВ	SER	В	3	-0.321	23.253	-11,037	0.00	0.00	6
0	SER	В	3	0.888	22.520	-11.055	0.00	0.00	8
č	SER	В	3	-2.121	24.295	-12.417	0.00	0.00	6
ŏ	SER	В	3	-3.015	23.566	-12.834	0.00		8
N			3	-2.337	25.530	-11.973	0.00	_	7
	ILE	В							6
CA	ILE	В	3	-3.667	26.133	-11.972	0.00	0.00	_
<u>CB</u>	ILE	В	3	-3.676	27.477	-11.223	0.00	0.00	6
C	ILE	В	3	-5.031	28.162	-11.315	0.00	0.00	6
<u>C </u>	ILE	В	3_	-3.292	27.240	-9.761	0.00	0.00	6
ച	ILE	В	3_	-2.987	28.470	-8.942	0.00	0.00	6
С	ILE	В	3	-4.157	26,301	-13.407	0.00	0.00	6
<u>o</u>	ILE	В	3	-5.243	25.828	-13.750	0.00	0.00	8
Z	TYR_	В	3	-3.309	26.824	-14.288	0.00	0.00	7
CA	TYR	В	3	-3.633	26.947	-15.705	0.00	0.00	6
CB	TYR	В	3	-2,493	27.567	-16.505	0.00	0.00	6
C	TYR	В	3	-1.896	28.842	-15.961	0.00	0.00	6
Č.	TYR	В	3	-0.581	29,179	-16.265	0.00	0.00	6
ČE	TYR	В	3	-0.012	30.344	-15.788	0.00	0.00	6
C	TYR	В	3	2.619	29.718	-15.162	0.00	0.00	6
CE	TYR	В	3	-2.057	30.876	-14.670	0.00	0.00	6
			3			-14.990	0.00	0.00	6
CZ	TYR	B	_	-0.752 -0.193	31,186 32,345	-14.503	0.00	0.00	8
0	TYR	B	3						_
č	TYR	B	3	-4.001	25.590	-16.298	0.00	0.00	6
0	TYR	В	3	-5.007	25,469	-16.999	0.00	0.00	8
Ŋ	SER	В	3	-3.235	24.554	-15.971	0.00	0.00	7
CA	SER	В	13	-3.522	23,199	-16.415	0.00	0.00	6
CB	SER	В	3	-2.377	22.264	-16.017	0.00	0.00	6
0	SER	В	3	-1.155	22,702	-16.586	0.00	0.00	8
C	SER	B	13	-4.842	22.675	-15.858	0.00	0.00	6
0	SER	В	3	-5.520	21.887	-16.523	0.00	0.00	8
N_	ILE	B	3	-5.206	23.068	-14.644	0.00	0.00	7
CA	ILE	<u>B</u>	3	-6.472	22.671	-14.041	0.00	0.00	6
CB	ILE	В	3	-6.451	22,881	-12.518	0.00	0.00	6
C	ILE	B	3	-7.836	22.836	-11.898	0.00	0.00	6
Ç	ILE	В	3	-5.553	21.817	-11.866	0.00	0.00	6
C	ILE	В	3	-5.056	22.190	-10.487	0.00	0.00	6
C_	ILE	В	3	-7.624	23.422	-14.695	0.00	0.00	6
0	ILE	В	3	-8.562	22.804	-15.209	0.00	0.00	8
N	LEU	В	3	-7.520	24.744	-14.785	0.00	0.00	7
CA	LEU	В	3	-8,545	25.579	-15.399	0.00	0.00	6
CB	LEU	В	3	-8.181	27.065	-15.295	0.00	0.00	6
C	LEU	В	3	-8.129	27.631	-13.872	0.00	0.00	6
č	LEU	В	3	-7.627	29.068	-13.881	0.00	0.00	6
c	LEU	В	3	-9,487	27.535	-13.191	0.00	0.00	6
Ċ.	LEU	В	3	-8.826	25.191	-16.840	0.00	0.00	6
0_	LEU	В	3	-9.981	25.181	-17.275	0.00	0.00	8
N	ALA	В	3	-7.799	24.803	-17.590	0.00	0.00	7
		B	3	-7.937	24.338	-18,959	0.00	0.00	6
CA.	ALA		-		23.931		0.00	0.00	6
<u>CB</u>	ALA.	B	3	-6.579		-19.512		0.00	6
<u>c</u>	ALA	В	3	-8.911	23.164	-19.051	0.00		_
0_	ALA	В	3	-9,697	23.069	-19.996	0.00	0.00	8
N	LEU	В.	3	-8,876	22.262	-18.076	0.00	0.00	7
CA	LEU	В	3	-9.799	21.147	-17.983	0.00	0.00	6
CB	LEU	В	3_	-9.334	20,159	-16.905	0.00	0.00	6
С	LEU	В	3	-8,035	19.398	-17.188	0.00	0.00	6
C_	LEU	В	3	-7.659	18,528	-15.997	0,00	0.00	6
c	LEU	В	3	-8.154	18.559	-18.451	0.00	0.00	6
c	LEU	В	3	-11.227	21.586	-17.680	0.00	0.00	6
ŏ.	LEU	В	3	-12.181	20.984	-18.179	0.00	0.00	8
N	ARG	В	3	-11.392	22.617	-16.859	0.00	0.00	7
CA	ARG	В	3	-12.706	23,117	-16.489	0.00	0.00	6
CB	ARG	В	3	-12.583	24.079	-15.299	0.00	0.00	6
_		В		-13.874	24.777	-14.912	0.00	0.00	6
<u>c</u>	ARG		13	13.648		-13.887	0.00	0.00	6
С	ARG	B	13	1 -13.048	1 40 0 10	1-13.00/	10.00	1.0.00	_0_

Figure 1 - 44

- 	1	- 1	~ 1	10.166	07.100	14 494 [0.00	0.00	7
N	ARG	흺	$\frac{3}{3}$	-13.165 -13.051	27.108 28.275	-14.494 -13.874	0.00	0.00	6
CZ	ARG	B B	3	-13.379	28.396	-12.595	0.00	0.00	7
N	ARG	B	3	-12.597	29.330	-14.537	0.00	0.00	7
N C	ARG	B	3	-13.421	23.828	-17.632	0.00	0.00_	6
_	ARG	В	3	-14.633	23.698	-17.798	0.00	0.00	8
0	ARG	В	3	12.690	24.638	-18.381	0.00	0.00	7
N CA	ASP ASP	В	3	13.225	25.469	-19.440	0.00	0.00	6
	ASP	В	3	-12.537	26.846	-19.359	0.00	0.00	6
CB	ASP	B	3	-12.948	27.685	-18.176	0.00	0.00	6
ö	ASP	В	3	-13.535	27.157	17.211	0.00	0.00	8
ŏ	ASP	В	3	-12.682	28.908	-18.203	0.00	0.00	8
	ASP	В	3	-12.979	24.945	-20.843	0.00	0.00	6
C 0	ASP	В	3	-13.300	25,620	-21.827	0.00	0.00	8
N		В	3	-12.296	23.817	-20.977	0.00	0.00	7
_	GLN			-11.944	23,263	-22.279	0.00	0.00	6
CA	GLN	B	3	-13.126	22.512	-22.889	0.00	0.00	6
CB	GLN	_	3	-13.723	21.453	-21.980	0.00	0.00	6
Ç	GLN	В		-13.723	20.174	21.920	0.00	0.00	6
Ğ	CLN	В	3		19.677	-22.930	0.00	0.00	8
9	GLN	B	3	-12.423	19.616	-20.720	0.00	0.00	7
N	GLN	В	3	-12.779	24.327	-23.235	0.00	0.00	6
<u>c</u> _	CLN	В	3	-11.408		-24,433	0.00	0.00	8
0_	GLN	В	3_	-11.691	24.310	-24.433	0.00	0.00	7
N.	ALA	B	3	-10.452		-23.550	0.00	0.00	6
CA	ALA	B	3	-9.774	26.140 27.521	-23.257	0.00	0.00	6
CB	ALA.	В	3	-10.335	26.084	-23.207	0.00	0.00	6
<u> </u>	ALA.	В	3	-8,284 -7,931	25,901	-22.041	0.00	0.00	8
0	ALA.	B	3		26,189	-24.220	0.00	0.00	7
N	VAL	B	3	-7.437	26,183	-24.018	0.00	0.00	6
CA	VAL	B	3	-5.993	24.989	24.847	0.00	0.00	6
CB	VAL	B	3	-5.366 -3.855	25.131	24.973	0.00	0.00	6
<u>چ</u>	VAL	В	3	-5.695	23,633	-24.230	0.00	0.00	6
<u>ç</u>	VAL	_	3	-5.351	27.463	-24.356	0.00	0.00	6
<u>ç</u>	VAL	B	3	-5.482	27.957	25.472	0.00	0.00	8
N	PRO	В	3	4.633	28.030	23.392	0.00	0,00	7
	PRO	B	3	4.407	27.455	-22.044	0.00	0.00	6
CA	PRO	В	3	-3.944	29,292	-23.561	0.00	0.00	6
CA	PRO	В	3	-3.399	29,643	-22.188	0.00	0.00	6
C	PRO	В	3	-3.859	28,600	-21.245	0.00	0.00	6
l c	PRO	В	3	-2.822	29.183	-24.582	0.00	0.00	6
6	PRO	В	3	-2.171	28.147	-24.703	0.00	0.00	8
N	PRO	В	3	-2.582	30.264	-25.314	0.00	0.00	7
C	PRO	В	3	-3.344	31.536	-25,229	0.00	0.00	6
CA	PRO	В	3	-1,585	30.294	-26.355	0.00	0.00	6
СВ	PRO	В	3	-2.056	31,453	-27.243	0.00	0,00	6
C	PRO	В	3	-2.735	32.389	-26,307	0.00	0.00	6
C	PRO	B	3	-0.154	30.580	-25.945	0.00	0.00	6
8	PRO	B	3	0.162	31,064	-24.864	0.00	0.00	8
N	THR	B	3	0.738	30.299	-26.892	0.00	0.00	7
	THR	B	3	2.137	30.682	-26.785	0.00	0.00	6
CA	THR	В	3	3.114	29.653	-27.365	0.00	0.00	6
CB	THR	B	3	2.891	28.369		0.00	0.00	8
l c	THR	В	3	4.549	30.091	-27.116	0.00	0.00	6
C	THR	B	3	2.240	31.973		0.00	0.00	6
6	THR	B	3	2.380	31.848		0.00	0.00	8
	_	B	3	1.976	33.134		0.00	0.00	7
N	ILE	B		2.002	34.355		0.00	0.00	6
CA	ILE	B	13		35.588		0.00	0.00	6
CB		B	3	1.463 0.066	35,303		0.00		6
lç.	ILE	HB B	3	2.394	36.033		0.00		6
Š.	ILE	_			37.458		0.00		6
č	ILE	뷰	13	2.187	34.607		0.00		6
0	ILE	+B	13	3.411	34.023		0.00		8
	ILE	B	13	4.388	1 34.043	1.41.011		, v.yy	

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N	ASN	В	3	3.542	35.474	29.338	0.00	0.00	7
CA	ASN	В	3	4.787	35.375	-29.954	0.00	0.00	6
CB	ASN	В	3	5.803	36.330	28.895	0.00	0.00	6
C	ASN	В	3	5.406	01.000	-28.157	0.00	0.00	6
0	ASN	В	3	4.824	38.511	-28.729	0.00	0.00	8
N	ASN	В	3	5.713	37.619	-26.865	0.00	0.00	7
C	ASN	В	3	5.455	34.830	-30.834	0.00	0.00	6
0	ASN	В	3	6.597	35.051	-31,267	0.00	0.00	8
N	LEU	В	3	4,802	33.721	-31,152	0,00	0.00	_
CA	LEU	В	3	5.422	32.668	-31.951	0.00	0,00	6
CB	LEU	В	3	4.857	31,306	-31.559	0.00	0.00	6
С	LEU	В	3	5.462	30,051	-32.183	0.00	0.00	6
<u>C </u>	LEU	В	3	6.981	30.095	-32.216	0.00	0.00	6
C	LEU	В	3	4.989	28.809	-31.438	0.00	0.00_	6
C_	LEU	B	3	5.272	32.938	-33.443	0.00	0.00	8
0	LEU	B	3	4.492	32.311	-34.153	0.00	0.00	7
Z	ASP	B	3	6.089	33.859	-33.940	0.00	0.00	6
CA	ASP	B	3	6.054	34,323	-35.311 -35.391	0.00	0.00	6
CB	ASP	B	3	6.691	35.718	-34.591	0.00	0.00	6
Ç_	ASP	B	3	5.944	36.763 37.704	-34.092	0.00	0.00	8
<u> </u>	ASP	В	3	6.598 4.707	36.655	-34,463	0.00	0.00	8
<u> </u>	ASP	В	3	6.790	33,400	-36.271	0.00	0.00	6
C O	ASP	В	3	6.462	33.348	-37.457	0.00	0.00	8
N	ASN	В	3	7.794	32,689	-35.773	0.00	0.00	7
CA	ASN	В	3	8.586	31.789	-36.597	0.00	0.00	6
CB	ASN	В	3	9,729	32.580	-37.246	0.00	0.00	6
C	ASN	В	3	9.497	32.981	-38,683	0.00	0.00	6
ŏ	ASN	В	3	9.025	32.186	-39.498	0.00	0.00	8
N	ASN	B	3	9.828	34.229	-39.001	0.00	0,00	7
c_	ASN	В	3	9.189	30.642	-35,796	0.00	0.00	6
ō	ASN	В	3	10.253	30.781	-35.192	0.00	0.00	8
N	PRO	В	3	8.538	29.485	-35.827	0.00	0.00	17
С	PRO	В	3	7.263	29,247	-36,544	0.00	0.00	16
CA	PRO	В	3	9.018	28.297	-35.149	0.00	0.00	6
СВ	PRO	В	3	8,089	27.190	-35.633	0.00	0.00	6
C	PRO	В	3	6.862	27.865	-36.120	0.00	0.00	6
C	PRO	В	3	10,462	27.972	-35.491	0.00	0.00	16
0	PRO	В	13	10.926	28,255	-36.597	0.00	0.00	18
N	ASP	↓B	3	11.178	27.374	-34.544	0.00	0.00	17
CA	ASP	B	13_	12.575	26.992	-34.766	0.00	0.00	6
CB	ASP	↓B	13	13.194	26.503	-33.461	0.00	0.00	16
<u> C_</u>	ASP	₽	13_	14.659	26,855	-33,310	0.00	0.00	6
0	ASP	₽	13.	15.042	27,993	-33,650	0.00	0.00	8
<u>o</u>	ASP	B	13	15.430	25.985	-32.850	0.00	0.00	6
<u> </u>	ASP	B	13	12.619	25,926	-35.856	0.00	0.00	8
0	ASP	B	13	11.612	25.248	-36.086	0.00	0.00	7
N	GLU	B	13	13.746	25.756	-36.534	0.00	0.00	6
CA	GLU	1B	13	13.865	24.830	-37.650 -38.236	0.00	0.00	6
CB	GLU	₽	13	15.284	24.861	-37.311	0.00	0.00	6
<u> </u>	GLU	<u> </u>	13	16.342	24.299	-38.015	0.00	0.00	6
<u>چ</u>	GLU	 불	13	17,548	23,718 22,556	-37,716	0.00	0.00	8
오	GLU	HB B	3	17.901	_	-38.856	0.00	0.00	8
0	GLU	용	3	18.151	24.415	-37.350	0,00	0.00	6
ic_	GLU	+를	13	13.476	23.391	-38.198	0.00	0.00	8
16	GLU	₽	3	12.844		-36,204	0.00	0.00	7
N	GLY	₩ HB	3	13.861	22,846	-	0.00	0.00	6
CA	GLY	↓B		13.502	21,480		0.00	0.00	6
15	GLY	B	13	12.369	21.509	-34.803	0.00	0.00	8
16	GLY	+용		12,466	22.166		0.00		7
N.	CYS	↓ <u>B</u>	_	10.082	22,100	1	0.00		6
CA	CYS	₽	_	9,892	23,730		0.00		6
CB		+8	_	10.917	24.160		+	_	Ť
SG	CYS	⊥B	13	116.211	164.100			,_,	

, ,		- 1			20.015	05.00	0.00	0.00	
C.	CYS	В	3	8.927	21.845	35.264	0.00	0.00	6
0	CYS	В	3	9.017	22.049	-36.482	0.00	0.00	8
N	ASP	В	3.	7.998	21.058	-34.736	0.00	0.00	1
CA	ASP	В	34	6.997	20,426	35.592	0.00	0.00	6
CB	ASP	В	3	7,556	19.082	-36.082	0.00	0.00	6
C	ASP	В	3	7.871	19.058	-37.563	0.00	0.00	6
0	ASP	B	3	8.818	19.759	-37.983	0,00	0.00	8
0	ASP	В	3_	7,184	18.328	-38.308	0.00	0.00	8
C	ASP	В	3	5.677	20.184	-34.878	0.00	0.00	6
0	ASP	В	3	4.734	19.653	-35.468	0.00	0.00	8
N	LEU	В	3	5.620	20.535	-33.600 [0.00	0.00	7
CA	LEU	В	3	4.427	20.303	-32,798	0.00	0.00	6
СВ	LEU	В	3	4.826	20.015	-31.345	0.00	0.00	6
		В	3	5.969	19.018	-31.137	0.00	0.00	6
<u>c</u>	LEU		_		19.332	-29.863	0.00	0.00	6
<u>c</u>	LEU	В	3	6,737		-31.107	0.00	0.00	6
ب	LEU	В	3	5.434	17,595		0.00	0.00	6
C_	LEU	В	3	3.473	21,489	-32.832		0.00	8
_ع	LEU	В	3	3.846	22.600	-33.214	0.00	0.00	7
N	ASP	В	3	2.236	21.241	-32.412	0.00		+
CA	ASP	B	3_	1.244	22.309	-32.329	0.00	0.00	6
CB	ASP	В	3	-0.181	21.783	32.446	0.00	0.00	6
С	ASP	В	3	-1.217	22,890	32,426	0.00	0.00	6
	ASP	В	3	-2.341_	22,651	-31.938	0.00	0.00	8
0	ASP	В	3_	-0.914	24.007	-32.895	0.00	0.00	18
C	ASP	В	3	1.442	23.030	-30.995	0.00	0.00	6
Г	ASP	В	3	1.028	22.555	-29,939	0,00	0.00	8
N	PHE	В	3	2.068	24.200	-31.053	0.00	0.00	7
CA	PHE	В	3	2.382	24.988	-29.873	0.00	0.00	16
СВ	PHE	В	3	3.714	25,719	-30.088	0.00	0.00	16
C_	PHE	В	3	4.923	24.845	-30.234	0.00	0.00	16
C	PHE	В	3	5.719	24,932	-31.366	0.00	0.00	6
Č	PHE	В	3	5.281	23,937	-29,250	0.00	0.00	6
CE	PHE	B	3	6.838	24.136	-31.515	0.00	0.00	6
CE	PHE	В	3	6.397	23,138	-29.391	0.00	0.00	6
CZ	PHE	В	3	7.178	23,238	-30.526	0.00	0.00	6
		В	3	1,310	26.009	-29.516	0.00	0.00	6
F	PHE	В	3	1.582	27.004	-28.844	0.00	0.00	8
9		В	3	0.080	25.802	-29.970	0.00	0.00	7
N	VAL.	В	3		26,703	-29.776	0.00	0.00	6
CA	VAL	-		-1.045	26.595	-28,403	0.00	0.00	6
CB	VAL	IB.	13	-1.714		-28.427	0.00	0.00	6
C_	VAL	B	13	-3.069	27.293	-27.974	0.00	0.00	6
LC.	VAL	B	13.	-1.897	25.146			0.00	6
<u> </u> C_	VAL	B	13	-0.584	28,134	-30.056	0.00	0.00	8
0	VAL	↓Β.	13	-0.538	28.999	-29.186	0.00		7
N	PRO	<u> </u>	13	-0.218	28.392	-31.313	0.00	0.00	
C	PRO	<u>↓B</u>	3	-0.189	27.370	32,404	0.00	0.00	16
CA	PRO	<u>↓B</u>	13	0.555	29.542	-31,696	0.00	0.00	16
CB	PRO	В	3	0.729	29,417	-33.216	0.00	0.00	16
C	PRO	В	3	-0.004	28.202	-33.638	0.00	0.00	16
C	PRO	B	Т3.	0.136	30,946	-31.358	0.00	0.00	6
ō	PRO	В	3	1.069	31.681	-30.971	0.00	0.00	8
N	HIS	B	13	-1.067	31,459	-31,590	0.00	0.00	7
CA		В	3	-1.295	32.881	-31.308	0.00	0.00	6
CB		В	13	-1.357	33,688	-32.615	0.00	0.00	6
C	HIS	В	3	-0.007	33.940	-33,216	0.00	0.00	6
_	HIS	B	3	0.948	34.859	-32.951	0.00		6
C.		B	3	0.512	33.117	-34.194	0.00		17
N	HIS	_				-34.535	0.00		6
CE		†ጅ	13	1.712	33.544		0.00		7
N	HIS	₽	13	2.002	34.598		0.00		6
C	HIS	<u> B</u>	13	-2.527	33.177	30.476	_		8
٥	HIS	<u>↓B</u>	13	-2.554	34.170		0.00		
N	GLU	<u> </u>	3	-3.557	32,353		0.00		17
CA	GLU	B	3	4.794	32.567		0.00		16
	GLU	B	3	-5.912	33,027	30,800	0.00	0.00	1 6

C	GLU	В	3	-6.321	34.482		0.00	0.00	<u>6</u>
<u>c </u>	GLU	В	3	-7.794	34.699	-30.938	0.00	0.00	6
0	GLU	В	3	-8.149	34.907	-32.118	0.00	0.00	8
0	GLU	В	3	-8.606 /	34.659	-29.990	0.00	0.00	8
c	GLU	В	3	-5.195	31.281	-29.152	0.00	0.00	6
0	GLU	В	3	-4.761	30.196	-29.536	0.00	0.00	8
N	ALA	В	3	-5.996	31.431	-28.105	0.00	0.00	7
CA	ALA	В	3	-6.462	30.276	-27.348	0.00	0.00	_
CB	ALA	В	3	-7.391	30.719	-26.230	0.00	0.00	6
딬	ALA	В	3	-7. <u>17</u> 7	29,299	-28.276	0.00	0.00	8
0	ALA	В	3	-7.907	29,717	-29.176	0.00	0.00	7
N	ARG	В	3	-6.936	28.009	-28.069	0.00	0.00	6
CA	ARG	В	3	-7.611	26.990	-28.866	0.00	0.00	6
CB	ARG	В	3	-6.659	25.870	-29.277	0.00	0.00	6
C	ARG	В	3	-7.277	24.868	-30.241	0.00		6
<u>C</u>	ARG	В	3	-6.937	25.210	-31.683	0.00	0.00	7
N	ARG	В.	3	-5.570	24.821	-32.015	0.00		6
CZ	ARG	В	3	-4.577	25.684	-32.190	0.00	0,00	7
N	ARG	В	3	-4.790	26.990	-32.071	0.00	0.00	7
N_	ARG	В	3	-3.363	25.243	-32.490	0.00	0.00	_
<u>c</u>	ARG	В	3	-8.788	26.424	-28.078	0.00	0.00	8
0	ARG	В	3	-8.750	26.377	-26.850	0.00	0.00	7
N_	GLN	В	3	-9.849	26.059	-28,783	0.00	0.00	6
CA	GLN	В	3	-11.015	25.438	-28,159	0.00	0.00	6
CB	GLN	B	3	-12.291	25,904	-28.851	0.00		6
Ç.	GLN	B	3	-13.555	25.155	-28.470	0.00	0.00	6
Ç_	GLN	B	3	-14.199	25,707	-27.216		0.00	8
0	GLN	B	3	-14.433	24.978	-26.251	0.00	0.00	7
N_	GLN	B	3	-14.484	27.003	-27.223	0.00	0.00	6
C_	GLN	<u>B</u>	3	-10.861	23.924	-28,260	0.00	0.00	18
0	GLN	<u>B</u>	3	-10.370	23.446	-29.287	0.00	0.00	17
N.	VAL	B	3	-11.116	23.192	27.185	0.00	0.00	6
CA	VAL	В	3	-11.017	21,734	-27.199	0.00	0.00	6
CB	VAL	В	3	-9.838	21.147	-26.417	0.00	0.00	6
<u>c</u>	VAL	IB.	3	-8,490	21.559 21.513	-24.942	0.00	0.00	6.
C_	VAL	B	13	-9.893	21.158	-26.668	0.00	0.00	6
<u> </u>	VAL	B	13	-12.333	21.923	-26.081	0.00	0.00	8
9	VAL	B	3	-13,106 -12,589	19.867	-26.865	0.00	0.00	7
N	SER	IB.	3	-13.873	19.313	-26.464	0.00	0.00	6
CA	SER	분	3	-14.642	18.853	-27,720	0.00	0.00	6
CB	SER	HB.	3		18.362	-27.327	0.00	0.00	8
<u>Q</u>	SER	B	3	-15.916 -13.869	18.181	-25,456	0.00	0.00	6
<u>ç</u>	SER		3	-14.583	18.304	-24.447	0.00	0.00	8
읒	SER	B	3	-13.158	17.086	-25.686	0.00	0.00	7
CA	GLY	B	3	-13.190		-24.741	0.00	0,00	6
CA	GLY	B	3	-11.855	15,729	-24.054	0.00	0.00	6
		B	3	-11.362		-24.022	0.00	0.00	8
N N	MET	B	3	-11.268		-23.500	0.00	0.00	17
_	MET	B	3	-9,980	16.684	-22.822	0.00		6
CA CB		B	3	-9.246	18.020		0.00	0.00	6
		B	3	-7.910	18.112		0.00		6
E	MET	B	3	-6.921	19.519	_	0.00		Ti.
SD		_	3	-7.795	20.874		0.00		6
_		B	3	-10.160		-21.361	0.00		6
K	MET	-	3	-10.876			0.00		8
ि	GLU	B	3	-9.508	15.214	_	0.00		7
N _A	GLU	B	3	-9.616	14,755				6
CA			_	-10.116		-19.526	0.00		6.
CB		분	13	-11.317				-	6
F	CLU	₽ HB	3	-11.829			0.00		6
č	GLU		_	-12.765			_		8
10	GLU		13						8
Ď	GLU		3	-11,300	14.862		_		6
I C	GLU	L B	3	1-8.306	114.504	1-10,103	10.00	. , ,,,,,,	

_ 1	6111	В	3	-3.326	15.026	-17.565	0.00	0.00	8
0 N	GLU TYR	B	3	-7,171	14.764	19.474	0.00	0.00	7
	TYR	В	3	-5.872	14.836	18.820	0.00	0.00	6
CA		В	3	5.066	13.550	-19.063	0.00	0.00	6
CB	TYR	В	3	-5.646	12.321	-18.401	0.00	0.00	6
ဌ	TYR				11.425	-19.132	0.00	0.00	6
<u>C</u>	TYR	В	3	-6.417					6
CE	TYR	В	3	-6.978	10.312	-18.535	0.00	0,00	_
C	TYR	В	3	-5.454	12.071	17.051	0.00	0.00	6
CE	TYR	В	3	-6.009	10.959	·16.445	0.00	0.00	6
CZ	TYR	В	3	-6.769	10.085	-17.192	0.00	0.00	6
0	TYR	В	3	-7.326	8.976	-16.597	0.00	0.00	8
С	TYR	В	3_	-5.034	16.018	-19.294	0.00	0.00	6
0	TYR	В	3	-5.017	16.342	-20.482	0.00	0.00	8
N	THR	В	3	-4.282	16,626	-18.381	0.00	0.00	7
CA	THR	В	3	-3.292	17.636	-18.718	0.00	0.00	6
CB	THR	В	3	-3.692	19.082	-18.388	0.00	0.00	6
0	THR	В	3	-4.186	19.170	-17.044	0.00	0.00	8
C	THR	В	3	4.736	19.619	-19.354	0.00	0.00	6
č	THR	В	3	-1.972	17.344	-17,995	0.00	0.00	6
ŏ	THR	В	3	-1.947	16.819	-16.887	0.00	0.00	8
Ň	LEU	В	3	-0.873	17.725	.18.626	0.00	0.00	7
	_		3	0.473	17.536	-18.101	0,00	0.00	6
CA	LEU	B B	3	1.262	16.734	-19.134	0.00	0.00	6
CB	LEU	_	_	2,652	16.201	18.820	0.00	0.00	6
Ĕ	LEU	B	3			·17.955	0.00	0.00	6
<u>c</u>	LEU	B	3	2.591	14.952	-20.110	0.00	0.00	6
<u>C</u>	LEU	В	3	3,405	15.888		0.00	0.00	6
C_	LEU	В	3	1.144	18.878	-17.835			8
<u></u>	LEU	B	13.	1.190	19.712	-18.745	0.00	0.00	7
N	CYS	B	13	1.623	19.127	·16.616	0.00	0.00	
CA	CYS	B	3	2.341	20.362	16.319	0.00	0.00	6
CB	CYS	B	3	1.761	21.154	-15.146	0.00	0.00	6
SG	CYS	В	3	2.784	22.605	-14.750	0.00	0.00	1
C_	CYS	<u>B</u>	3	3.817	20.081	-16.038	0.00	0.00	6
<u>[o</u>	CYS	В	13	4.172	19,382	·15.093	0.00	0.00	8
N	ASN	В	3	4,681	20.666	-16.852	0.00	0.00	17
CA	ASN	В	3	6.113	20.457	-16.301	0.00	0.00	6
СВ	ASN	В	3	6.561	20.213	-18.260	0.00	0.00	151
С	ASN	В	3	6.424	18,773	-18.697	0.00	0.00	16
0_	ASN	В	3.	6,208	17.872	-17.887	0.00	0.00	18
N	ASN	В	3	6.574	18,544	-19.997	0.00	0.00	17
c	ASN	В	3	6.977	21.568	-16.233	0.00	0.00	16
ō	ASN	В	3	6.881	22.730	-16.617	0.00	0.00	8
N	SER	В	3	7.954	21.187	-15.413	0.00	0,00	7
CA	SER	В	3	8,937	22,105	14.851	0.00	0.00	6
CB		В	3	8.579	22.503	13.422	0.00	0.00	6
6	SER	В.	3	8.046	23.810	-13.359	0.00	0.00	8
		B	3		21.445	-14.860	0.00	0.00	6
Ĕ	SER	_	_	10.315	20.427	-14.194	0.00	0.00	8
8	SER	용	13	10.513	21.977	15,649	0.00	0.00	7
N	PHE	IB.	13	11.238			0.00	0.00	6
CA	PHE	B	3	12.588	21.434	-15.761		0.00	6
CB	PHE	B	13	12.887	20.962	17.185	0.00	0.00	6
C_	PHE	Ļ₿	13	11.830	20.141	-17.862	0.00		
<u> C</u>	PHE	<u> </u>	13	11.314	20.531	-19.087	0.00	0.00	16
C	PHE	B	13	11.336	18.984	-17.280	0.00	0.00	6
CE	PHE	B	3	10.330	19.791	19.714	0.00	0.00	18
CE	PHE	В	3	10.343	18.247	·17.894	0.00	0.00	6
CZ	PHE	B	3	9.845	18.646	-19,119	0.00	0.00	6
C	PHE	В	3	13.600	22.501	-15.347	0.00	0.00	6
Ŏ	PHE	В	3	13.931	23.374	-16,150	0.00	0.00	8
N	GLY	В	3	14.102	22.456	-14.116	0.00	0.00	7
CA	GLY	B	3	14.860	23.556	-13.571	0.00	0.00	6
C.	GLY	B	3	16.362	23,470		0.00	0.00	6
	GLY	B	3	17.009	22.450			0.00	8
O Z		₩B	4	16.944	24,615				7
	PHE	ı D	14	1 10.344	144.013	: 10,030	<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		

CA	PHE	В	4	18.387	24.746	-12.897	0.00	0.00	6
СВ	PHE	В	4	18.720	26,141	-12.373	0.00	0.00	6
c l	PHE	В	4	18.292	27.221	-13.330	0.00	0.00	6
c l	PHE	В	4	17.267	28.087	-13.002	0.00	0.00	6
c i	PHE	В	4	18,916	27.368	-14.558	0.00	0.00	6
CE	PHE	В	4	16.866	29.079	-13.876	0.00	0.00	6
CE !	PHE	В	4	18.522	28.357	-15.436	0.00	0.00	6
CZ	PHE	В	4	17.495	29.215	-15.095	0.00	0.00	6
Ç	PHE	В	4	18.862	23.638	-11.971	0.00	0.00	6
0	PHE	В	4	18,146	23.237	-11.054	0.00	0.00	8
N	GLY	В	4	20.035	23.085	-12.261	0.00	0.00	7
CA	GLY	В	4	20.579	21.974	-11.489	0.00	0.00	6
c _	GLY	В	4	20.138	20.638	-12.082	0.00	0.00_	6
0	GLY	В	4	20,442	19.568	-11.554	0.00	0.00	8
N	GLY	В	4	19.372	20.671	-13.162	0.00	0.00	7
CA	GLY	В	4	18.843	19.509	-13.835	0.00	0.00	6
С	GLY	В	4	17.780	18.774	-13.036	0.00	0.00	6
\circ	GLY	В	4	17.658	17.555	-13.171	0.00	0.00	8
N	THR	B	4	16.986	19.478	-12.237	0.00	0.00	7
CA	THR	B	4	15.949	18.817	-11.440	0.00	0.00	6
CB	THR	В	4	15.976	19.325	-9.993	0.00	0.00	8
0	THR	В	4	14.911	18.730	-9.243	0.00	0.00	
<u>c</u>	THR	В	4	15.873	20.840	-9.915	0.00	0.00	6
Č	THR	B	4	14.607	18.975	-12,134	0.00	0.00	8
0	THR	B	4	14.143	20.085	-12.401	0.00	0.00	7
N.	ASN	B	4	14.012	17.851	-12.542 -13.322	0.00	0.00	6
CA	ASN	B	4	12.791 12.936	17.853	-13.522	0.00	0.00	6
CB	ASN	B	4	14.167	17.308	-15.404	0.00	0.00_	6
Š	ASN ASN	B	4	14.327	18.432	15.878	0.00	0.00	8
O_N	ASN	В	4	15.033	16.317	-15.556	0.00	0.00	7
N C	ASN	В	4	11.564	17.303	-12.604	0.00	0.00	6
	ASN	В	4	11.653	16.434	-11.745	0.00	0.00	8
O N	GLY	B	4	10.405	17.769	-13.071	0.00	0,00	7
CA	GLY	B	4	9.142	17.309	-12.516	0.00	0.00	6
c	GLY	В	4	7.990	17.509	-13.491	0.00	0.00	6
ŏ.	GLY	В	4	7.993	18,405	-14.327	0.00	0.00	8
N	SER	В	4	6.987	16.650	·13.367	0.00	0.00	7
CA	SER	В	4	5.782	16,715	-14,170	0.00	0.00	6
CB	SER	В	4.	5.822	15.765	-15.365	0.00	0,00	6
o	SER	В	4	6,920	15.961	-16.224	0,00	0.00	8
C	SER	В	4	4.581	16.334	13.302	0.00	0.00	6
Ŏ	SER	В	14	4.688	15.411	-12.495	0.00	0.00	8
N	LEU	В	4	3.471	17.032	-13.484	0.00	0.00	7
CA	LEU	В	4	2.249	16,710	-12.751	0.00	0.00	6
СВ	LEU	В	4	1.830	17.838	-11.819	0.00	0.00	6
С	LEU	В	4	2.585	17.940	-10.488	0.00	0.00	6
U	LEU	В	4	2,403	19.314	-9.863	0.00	0.00	6
C	LEU	В	4	2.137	16.855	-9.521	0.00	0.00	16
o	LEU	В	4	1.166	16.376	-13.777	0.00	0.00	6
0	LEU	В	4	1.216	16.876	-14.906	0.00	0.00	18
Ņ	ILE	В	4	0.306	15.412	-13.474	0.00	0.00	7
CA	ILE	В	4	-0.784	15.030	-14.359	0.00	0.00	6
CB	ILE	В	4	-0.723	13.580	-14.866	0.00	0.00	6
c	ILE	В	4	-2.009	13,208	-15.599	0.00	0.00	6
C	ILE	В	4	0.471	13.365	-15.798	0.00	0.00	6
C	ILE	В	4	0.661	11.935	-16.250	0.00	0.00	6
C	ILE	В	4	-2.112	15.245	-13.630	0.00	0.00	6
Q	ILE	В	4	-2,303	14.764	-12,516	0,00	0.00	8
N	PHE	В	4	-3.015	15.973	-14.279	0.00	0.00	17
CA	PHE	В	4	-4.320	16.257	-13.690	0.00	0.00	16
CB	PHE	В	4	-4.534	17.768	-13.596	0.00	0.00	16
С	PHE	B	4	-3.628	18.449	-12,608	0.00	_	6
C	PHE	В	14	-2.421	18.992	1-13.015	10.00	0.00	<u> 6</u>

C										
CE PHE B 4 -1.583 19.615 12.109 0.00 0.00 6 CE PHE B 4 -1.948 19.701 10.780 0.00 0.00 6 CC PHE B 4 -1.948 19.701 10.780 0.00 0.00 6 CC PHE B 4 -5.433 15.582 14.484 0.00 0.00 6 CC PHE B 4 -5.433 15.582 14.484 0.00 0.00 6 CC PHE B 4 -5.698 15.351 1.35.685 0.00 0.00 7 CA LYS B 4 -7.621 14.523 14.445 0.00 0.00 6 CC LYS B 4 -7.615 13.048 14.064 0.00 0.00 6 CE LYS B 4 -7.615 13.048 14.064 0.00 0.00 6 CE LYS B 4 -9.066 11.022 14.425 0.00 0.00 6 CE LYS B 4 -9.966 11.022 14.425 0.00 0.00 6 CE LYS B 4 -9.966 11.022 14.425 0.00 0.00 6 CE LYS B 4 -9.980 10.113 13.620 0.00 0.00 6 CE LYS B 4 -9.980 10.113 13.620 0.00 0.00 6 CE LYS B 4 -9.980 10.113 13.620 0.00 0.00 6 CE LYS B 4 -9.765 15.394 15.142 0.00 0.00 7 CC LYS B 4 -9.125 15.663 12.970 0.00 0.00 6 CE LYS B 4 -11.057 16.029 -14.990 0.00 0.00 6 CE LYS B 4 -11.634 16.391 16.366 0.00 0.00 6 CE LYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CE LYS B 4 -14.796 18.590 0.00	С	PHE	В	4	-3.974	18.529	-11.268	0.00	0.00	6
CZ	CE	PHE	B	4	-1.583	19.615		0.00		
CZ PHE B 4 -1.948 19.701 10.780 0.00 0.00 6	CE	PHE	В	14	-3.142	19.154	-10.360	0.00	0.00	6
C	CZ	PHE	Тв	14	1.948	19.701	-10.780	0.00		6
O PHE B 4	С	PHE	В	14	-5.433	15.582		_		
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CA LYS B 4 -7.621 14.523 14.445 0.00 0.00 6 CB LYS B 4 -7.615 13.048 14.064 0.00 0.00 6 CC LYS B 4 -8.945 12.390 13.771 0.00 0.00 6 CC LYS B 4 -9.066 11.022 14.425 0.00 0.00 6 CC LYS B 4 -9.066 11.022 14.425 0.00 0.00 6 CC LYS B 4 -9.080 10.113 13.620 0.00 0.00 6 CC LYS B 4 -9.980 10.113 13.620 0.00 0.00 6 CC LYS B 4 -11.257 10.787 13.251 0.00 0.00 7 CC LYS B 4 -9.212 15.563 12.970 0.00 0.00 7 CC LYS B 4 -9.765 15.394 15.142 0.00 0.00 6 CC LYS B 4 -9.765 15.394 15.142 0.00 0.00 6 CC LYS B 4 -11.657 16.029 14.990 0.00 0.00 6 CC LYS B 4 -11.654 16.391 16.366 0.00 0.00 6 CC LYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CC LYS B 4 -14.796 18.590 16.399 0.00 0.00 6 CC LYS B 4 -14.796 18.590 16.399 0.00 0.00 6 CC LYS B 4 -14.796 18.590 16.399 0.00 0.00 6 CC LYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CC LYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CC LYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CC LYS B 4 -12.495 18.590 16.391 0.00 0.00 6 CC LYS B 4 -12.913 15.106 14.269 0.00 0.00 6 CC LYS B 4 -12.478 13.394 14.652 0.00 0.00 6 CC LYS B 4 -12.478 13.394 14.655 0.00 0.00 0.00 6 CC LYS B 4 -12.698 15.610 13.230 0.00 0.00 6 CC LYS B 4 -12.698 15.610 13.230 0.00 0.00 6 CC LYS B 4 -12.698 15.610 13.230 0.00 0.00 6 CC LYS B 4 -14.796 18.690 10.400 0.00 6 CC LYS B 4 -14.584 14.417 10.163 0.00 0.00 6 CC LYS B 4 -14.584 14.417 10.163 0.00 0.00 6 CC LYS B 4 -14.584 15.546 12.659 0.00 0.00 6 CC LYS B 4 -14.584 15.546 12.659 0.00 0.00 6 CC LYS B 4 -14.584 15.481 15.769 13.816 0.00 0.00 6 CC LYS B 4 -14.584 15.481 15.769 13.816 0.00 0.00 6 CC LYS B 4 -14.584 14.417 10.163 0.00 0.00 6 CC LYS B 4 -14.584 14.417 10.163 0.00 0.00 6 CC LYS B 4 -14.584 15.600 15.546 12.659 0.00 0.00 6 CC LYS B 4 -14.584 15.560 15.546 12.659 0.00 0.00 0.00 6 CC LYS B 4 -15.600 15.546 12.659 0.00 0.00 0.00 6 CC LYS B 4 -14.584 15.560 15.546 12.659 0.00 0.00 0.00 6 CC LYS B 4 -14.584 15.560 15.546 12.659 0.00 0.00 0.00 6 CC LYS B 4 -14.584 15.560 15.546 12.659 0.00 0.00 0.00 6 CC LYS B 4 -14.584 15.560 0.00 0.00 0.00 6 CC LYS B 4 -14.584 15.560 0.00 0.00 0.00 6 CC LYS	N			4		,		_		
CB LYS	_		_	_			1	$\overline{}$		
C LYS B 4 -9.966 11.022 14.425 0.00 0.00 6 CLYS B 4 -9.966 11.022 14.425 0.00 0.00 6 NZ LYS B 4 -9.980 10.113 -13.620 0.00 0.00 6 NZ LYS B 4 -9.125 10.787 13.251 0.00 0.00 6 NZ LYS B 4 -9.212 15.563 12.970 0.00 0.00 6 CLYS B 4 -9.212 15.563 12.970 0.00 0.00 6 CLYS B 4 -9.212 15.563 12.970 0.00 0.00 6 CLYS B 4 -9.213 15.563 12.970 0.00 0.00 6 CLYS B 4 -11.667 16.029 14.990 0.00 0.00 6 CB LYS B 4 -11.667 16.029 14.990 0.00 0.00 6 CB LYS B 4 -11.634 16.391 16.366 0.00 0.00 6 CLYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CLYS B 4 -12.465 17.660 16.399 0.00 0.00 6 CLYS B 4 -14.796 18.590 16.391 0.00 0.00 6 CLYS B 4 -14.788 19.577 15.277 0.00 0.00 7 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 7 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.652 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.655 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.655 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.655 0.00 0.00 6 CLYS B 4 -12.853 13.944 14.655 0.00 0.00 6 CLYS B 5 -14.5481 15.60 13.230 0.00 0.00 6 CLYS B 6 -12.853 10.00 0.00 0.00 6 CLYS B 7 -14.948 11.00 0.00 0.00 6 CLYS B 8 -14.584 14.417 10.163 0.00 0.00 6 CLYS B 8 -15.481 15.769 13.816 0.00 0.00 6 CLYS B 8 -15.481 15.769 13.816 0.00 0.00 6 CLYS B 8 -15.481 15.769 13.816 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.567 39.281 19.752 0.00 0.00 8 CLYS B 8 -14.568 0.00 0.00 0.00 8 CLYS B 9.574 0.00 0.00 8 CLYS B 9.574 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.00 8 CLYS B 9.575 0.00 0.00 0.0										
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NZ LYS	C	LYS	В	4	-13.928	17.380	-16.089		0.00	6
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O1 WAT W 5 21.290 38.294 -20.198 0.00 0.00 8 O1 WAT W 5 15.902 50.395 9.343 0.00 0.00 8 O1 WAT W 5 -2.782 8.166 8.701 0.00 0.00 8 O1 WAT W 5 18.738 27.340 19.439 0.00 0.00 8 O1 WAT W 5 6.680 14.967 34.855 0.00 0.00 8 O1 WAT W 5 22.057 48.723 9.374 0.00 0.00 8 O1 WAT W 5 6.611 39.165 2.117 0.00 0.00 8 O1 WAT W 5 13.624 8.699 12.588 0.00 0.00 8 O1 WAT W 5 9.255 7.220 29.727 0.00	01	WAT		<u> 5</u>	-13.395	21.538	1.565	0.00	0.00	8
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O1 WAT W 5 -2.782 8.166 -8.701 0.00 0.00 8 O1 WAT W 5 18.738 27.340 19.439 0.00 0.00 8 O1 WAT W 5 -1.747 11.046 -6.351 0.00 0.00 8 O1 WAT W 5 -6.80 14.967 34.855 0.00 0.00 8 O1 WAT W 5 -2.20.57 48.723 -9.374 0.00 0.00 8 O1 WAT W 5 -6.611 39.165 -2.117 0.00 0.00 8 O1 WAT W 5 13.624 8.609 -12.588 0.00 0.00 0.00 8 O1 WAT W 5 -5.734 12.781 -26.436 0.00 0.00 8 O1 WAT W 5 15.561 45.821 -2.731 <td>Ol</td> <td>WAT</td> <td>W</td> <td>5</td> <td>21.290</td> <td>38.294</td> <td>-20.198</td> <td>0.00</td> <td>0.00</td> <td>8</td>	Ol	WAT	W	5	21.290	38.294	-20.198	0.00	0.00	8
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O1 WAT W 5 9.127 0.966 13.608 0.00 0.00 8			_					0.00	0.00	8
4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1										
01 WAT W 5 23 605 12 660 18 246 0 00 0 00 8	01			_			-13.608	0.00	0.00	
VA 1 1128 1 11 10 1 100	01	WAT	W	5	23.605	12.660	-18.246	0.00	0.00	8

Figure 1 - 48

			•	79/1	110			T T	
 T	LYS	A	T 2	5.691	-3.942	0.967	1.00	59.01	N .
N CA	LYS	A	2	6.181	-2.836	1.843	1.00	59.40	<u>c</u>
c	LYS	A	2	7.698	-2.690	1.729	1.00	58.26	<u>C</u>
5	LYS	A	2	8.433	-3.674	1.800	1.00	58.76	0 1
СВ	LYS	A	2	5.769	-3.035	3.298	1.00	59.99	<u>C</u>
CG	LYS	Ā	12	6.542	-2.171	4.281	1.00	60.75	<u>c</u>
	LYS	A	2	5.621	-1.406	5.211	1.00	61.69	<u>-</u>
CD	LYS	A	2	5.333	-0.004	4.701	1.00	62.26	<u>C</u>
CE	LYS	Ā	1 2	5.569	1.027	5.757	1.00	62.54	N
NZ	ARG	Ā	3	8.164	-1.457	1.572	1.00	56.23	N
N		Ā	3	9.587	-1.211	1.400	1.00	54.46	C
CA	ARG-	Ā	3	10.254	-0.621	2.629	1.00	53.07	<u>C</u>
<u>C</u>	ARG	A	3	9.908	0.442	3.142	1.00	53.04	0
0	ARG		3	9.797	-0.330	0.163	1.00	54.51	<u></u>
CB	ARG	A	3	9.528	-1.088	-1.137	1.00	54.53	C
CG	ARG	1 A	3	9.198	-0.128	-2.267	1.00	54.58	C
CD	ARG	A -	3	10.369	0.430	-2.917	1.00	54.17	N
NE	ARG	<u>A</u>	3	11.239	-0.232	-3.660	1.00	54.41	C
CZ	ARG	A		11.105	-1.535	-3.867	1.00	54.22	N
NHI	ARG	A	3	12.268	0.409	-4.208	1.00	55.03	N
NH2	ARG	A	3	11.255	-1.351	3.116	1.00	51.11	N
N	ARG	I A	4		-0.957	4.293	1.00	49.31	С
CA	ARG	<u> </u>	- 4	12.014	-0.261	3.888	1.00	46.70	С
С	ARG	<u> </u>	4	13.305	-0.261	3.065	1.00	45.87	0
0	ARG	A	4	14.075	-2.184	5.161	1.00	51.04	С
СВ	ARG	A	4	12.313	-3.026	5.462	1.00	52.54	С
CG	ARG	A	4	11.082	-4.014	6.588	1.00	54.18	С
CD	ARG	A	4	11.310	-4.381	6.740	1.00	55.76	N
NE	ARG	A	4	12.714		7.754	1.00	55.81	C
CZ	ARG	A	4	13.204	-5.089	8.707	1.00	56.21	N
NHI	ARG	<u> </u>	_ 4	12.388	-5.510	7.792	1.00	56.00	N
NH2	ARG	A	4	14.499	-5.363	4.436	1.00	44.00	N
N	VAL	A	5	13.512	0.929	4.082	1.00	41.65	C
CA	VAL	A	5	14.691	1.721	5.144	1.00	40.39	c
С	VAL	Α	5	15.765	1.553	6.342	1.00	40.29	0
0	VAL	A	5	15.466	1.605	3.904	1.00	41.18	Tc
СВ	VAL	A	5	14.334	3.204	3.494	1.00	40.93	Tc 1
CGI	VAL	T A	5	15.542	4.022		1.00	40.99	c
CG2	VAL	Α	_ 5	13.215	3.337	2.878	1.00	38.36	N
N	VAL	Α	6	16.989	1.323	4.687	1.00	36.46	c
CA	VAL	Α	6	18.127	1.134	5.579	1.00	35.96	Ċ
C	VAL	Α	6	19.270	2.069	5.204	1.00	34.89	Ö
0	VAL	A	6	19.367	2.549	4.078	1.00	36.36	Ċ
СВ	VAL	Α	6	18.597	-0.331	5.583	1.00	35.25	c
CGI	VAL	Α	6	17.633	-1.212	6.377		34.82	Ċ
CG2	VAL	'A	6	18.774	-0.883	4.176	1.00	36.29	N
N	VAL	A	7	20.114	2.404	6.175	1.00	34.89	c
CA	VAL	A	7	21.209	3.359	5.973	1.00	35.21	c
l c	VAL	A	7	22.508	2.606	5.723	1.00		0
6	VAL	A	7	23.107	2.026	6.633	1.00	34.55	$\frac{1}{c}$
CB	VAL	A	7	21.352	4.266	7.205	1.00	- 1-22	15
CGI	VAL	A	7	22.435	5.308	6.974	1.00	34.66	c
CG2	VAL	A	7	20.030	4.915	7.568	1.00	32.51	N
N N	THR	A	8	22.947	2.600	4.468	1.00	35.16-	Tr C
CA	THR	I A	8	24.151	1.902	4.077	1.00	34.77	c
C	THR	A	- 8	25.366	2.768	3.841	1.00	34.34	18-
0	THR	A	8	26.312	2.285	3.191	1.00	35.61	C
СВ	THR	A	8	23.893	1.120	2.751	1.00	35.46	
OGI	THR	A	8	23.765	2.081	1.693	1.00	35.07	10-
CG2	THR	A	8	22.666	0.247	2.872	1.00	34.29	<u> </u>
	GLY	TA A	19	25.403	4.010	4.292	1.00	33.53	N C
N CA	GLY	- A	9	26.572	4.846	4.008	1.00	32.71	<u> </u>
CA	GLY	 	- 6 -	26.496	6.173	4.745	1.00	32.55	<u> </u>
ļ <u>c</u>		A	- j -	25.472	6.847	4.718	1.00	32.58	- 0
0	GLY		10	27.591	6.534	5.404	1.00	31.65	N
N	LEU	- A -	10	27.691	7.753	6.182	1.00	30.79	<u> </u>
CA	LEU	- ^ -	10	28.815	8.653	5.700	1.00	30.11	<u>c</u>
<u> </u>	LEU	A	10	29.837	8.168	5.209	1.00	30.41	<u> </u>
0	LEU	14	10	27.912	7.374	7.657	1.00	31.04	l c
CB	LEU	I A	1 10	27.7.4					

				00/	110				
CG	LEU	T A	10	26.798	6.560	8.320	1.00	1 31.18	Тс
CDI	LEU	A	10	27.208	6.161	9.736	1.00	31.32	c
CD2	LEU	A	10	25.488	7.329	8.323	1.00	30.03	c
N	GLY	A	11	28.643	9.963	5.814	1.00	29.43	N
CA	GLY	A	11	29.679	10.911	5.372	1.00	28.90	c
С	GLY	A	11	29.509	12.228	6.120	1.00	28.84	c
0	GLY	A	11	28.368	12.646	6.360	1.00	27.25	0
N	MET	A	12	30.616	12.889	6.517	1.00	29.01	N
CA	MET	A	12	30.376	14.128	7.269	1.00	29.71	l c
С	MET	A	12	31.538	15.041	7.553	1.00	29.99	c
0	MET	A	12	32.635	14.675	7.959	1.00	30.94	0
СВ	MET	Α	12	29.709	13.689	8.579	1.00	30.44	C
CG	MET	A	12	30.111	14.370	9.851	1.00	31.28	c
SD	MET	A	12	29.114	13.787	11.236	1.00	33.04	S
CE	MET	A	12	29.030	15.291	12.208	1.00	34.14	c
N	LEU	A	13	31.255	16.339	7.480	1.00	29.20	N
CA	LEU	A	13	32.186	17.389	7.856	1.00	28.50	C.
С	LEU	Α	13	31.557	18.111	9.057	1.00	28.52	Ċ
0	LEU	Α	13	30.355	18.378	9.039	1.00	28.74	10
СВ	LEU	A	13	32.394	18.402	6.750	1.00	28.65	Č
CG	LEU	A	13	33.435	18.122	5.680	1.00	28.65	c
CDI	LEU	A	13	33.357	19.187	4.601	1.00	28.55	c
CD2	LEU	A	13	34.829	18.057	6.293	1.00	28.84	c
N	SER	A	14	32.344	18.403	10.070	1.00	28.97	N
CA	SER	A	14	31.799	19.072	11.255	1.00	28.21	c
С	SER	A	14	32.909	19.787	12.004	1.00	27.92	c
0	SER	A	14	34.097	19.551	11.780	1.00	28.19	Ō
СВ	SER	Α	14	31.141	18.044	12.170	1.00	28.44	С
OG	SER	Α	14	32.052	17.670	13.191	1.00	29.39	0
N	PRO	Ä	15	32.515	20.647	12.923	1.00	27.64	N
CA	PRO	Α	15	33.437	21.428	13.717	1.00	28.13	С
С	PRO	Α	15	34.385	20.619	14.582	1.00	28.10	C.
0	PRO	Α	15	35.465	21.116	14.931	1.00	26.91	0_
СВ	PRO	Α.	15	32.536	22.318	14.571	1.00	28.32	C
CG	PRO		15	31.220	22.323	13.885	1.00	28.67	С
CD	PRO	A	15	31.096	20.981	13.207	1.00	27.90	С
N	VAL	I A	16	34.019	19.402	14.975	1.00	28.38	N
CA	VAL	Α	16	34.884	18.572	15.791	1.00	28.90	С
С	VAL	Α	- 16	35.607	17.534	14.941	1.00	29.97	С
0	VAL	Α	16	36.453	16.796	15.472	1.00	31.83	0
СВ	VAL	A	16	34.157	17.879	16.955	1.00	28.71	C
CG1	VAL	A	16	33.534	18.907	17.896	1.00	29.04	C
CG2	VAL	A	16	33.097	16.901	16:489	1.00	28.08	<u> </u>
N N	GLY	A	17	35.307	17.450	13.648	1.00	29.27	N
CA	GLY	A	17	35.990	16.446	12.835	1.00	30.51	C
<u>c</u>	GLY	A	17	35.651	16.531	11.360	1.00	31.65	c
0 N	GLY	A	17.	34.569	16.998	10.992	1.00	32.81	0
	ASN	A	18	36.559	16.075	10.506	1.00	31.30	N
CA C	ASN	A	18	36.365	16.100	9.062	1.00	30.77	C
	ASN	A	18	35.892	14:767	8.528	1.00	29.51	C
O CB		A	18	35.733	14.560	7.319	1.00	29.78	9
CB	ASN	A	18	37.678	16.530	8.381	1.00	32.68	C
ODI	ASN	A	18	37.873	18.028	8.512	1.00	35.49	C -
ND2	ASN	A	18	36.915	18.750	8.815	1.00	37.19	0
N N	THR	A	18	39.081	18.526 13.749	8.303	1.00	36.58	N
CA	THR	A	19	35.804 35.289	12.456	9.379 8.960	1.00	27.98	N C
C	THR	A	19	34.258	11.975	9.989		27.30	
0	THR	A	19	34.238	12.579	11.046	1.00	27.68	C
СВ	THR	A	19				1.00	28.33 25.95	0
OGI	THR	A	19	36.328 36.898	11.346	8.760	1.00	+	C
CG2	THR	A	19	37.418		10.030	1.00	26.38	<u> </u>
N N	VAL	A	20	33.560	11.733	7.792 9.640	1.00	23.99	C
CA	VAL	Ā	20	32.537	10.396				N C
C	VAL	A	20	33.159	9.898	10.550 11.840	1.00	30.09	c
0	VAL	Ā	20	32.870	10.399	12.926	1.00	31.00	0
СВ	VAL	Ā	20	31.737	9.270	9.872	1.00	27.71	c
CGI	VAL	Ā	20	30.836	8.588	10.881	1.00	28.09	c
		<u> </u>	1	50.050	2.500	1 10.001	1.00	20.07	

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CG2		,			,			,		
CA GLU A 21 34669 8.128 12.915 1.00 32.01 C C GLU A 21 51.518 9.347 13.770 1.00 32.56 C C GLU A 21 51.516 9.306 15.005 1.00 31.36 O C G GLU A 21 51.516 9.306 15.005 1.00 32.25 C C G GLU A 21 51.526 0.916 15.005 1.00 32.25 C C G GLU A 21 34.828 6.028 11.845 1.00 32.20 C C C G GLU A 21 34.828 6.028 11.845 1.00 32.20 C C G GLU A 21 33.806 5.603 13.972 1.00 33.39 O O GE2 GLU A 21 33.806 5.603 13.972 1.00 33.39 O O GE2 GLU A 21 32.93 4.693 13.972 1.00 33.39 O O GE2 GLU A 22 35.624 11.235 1.4055 1.00 33.25 C C G SER A 22 35.624 11.236 14.695 1.00 33.25 C G SER A 22 35.624 11.236 14.695 1.00 33.25 C C G SER A 22 35.894 12.051 14.892 1.00 33.25 C G SER A 22 35.894 12.051 14.892 1.00 37.95 C G SER A 22 37.774 12.135 13.245 1.00 37.95 C G SER A 22 37.774 12.135 13.245 1.00 37.99 O O SER A 22 37.774 12.135 13.245 1.00 37.99 O O SER A 22 37.774 12.135 13.245 1.00 37.99 O O T T T T T T T T	CG2	VAL		20	30.975	9.838	8.685	1.00	26.96	C
C GLU A 21 153355 9347 133770 1.00 32.56 C O GLU A 21 15216 9306 15.005 1.00 33.46 O CB GLU A 21 155.92 7.178 12.500 1.00 32.55 C CG GLU A 21 135.92 7.178 12.500 1.00 32.25 C CD GLU A 21 135.92 7.178 12.500 1.00 32.25 C CD GLU A 21 133.779 5.403 12.731 1.00 32.20 C CD GLU A 21 133.795 5.403 12.731 1.00 32.20 C CD GLU A 21 133.795 5.403 12.731 1.00 32.25 C CD GLU A 21 133.795 5.403 12.731 1.00 32.25 C CD GLU A 21 133.795 1.00 32.99 O CE2 GLU A 21 13.896 5.603 12.918 1.00 32.86 O N SER A 22 15.864 11.256 1.00 31.98 1.00 32.86 O C SER A 22 15.864 11.256 1.4055 1.00 31.95 C C SER A 22 15.864 11.256 1.4055 1.00 31.95 C C SER A 22 15.864 12.198 1.6107 1.00 33.65 O CB SER A 22 37.744 1.256 1.4050 1.00 33.85 O CB SER A 22 37.744 1.256 1.2619 1.2273 1.00 33.85 O CB SER A 22 37.744 1.256 1.2619 1.3285 1.00 33.85 O CB SER A 22 37.744 1.256 1.2619 1.3285 1.00 33.85 O CB SER A 22 37.144 1.2592 14.222 1.00 33.85 O CB SER A 22 37.144 1.2619 1.2619 1.3285 1.00 33.85 O CB SER A 22 37.144 1.2619 1.2673 1.00 33.85 O C THR A 23 33.4881 1.2640 1.6017 1.00 30.74 C C THR A 23 33.3481 1.388 1.4551 1.00 30.99 O C THR A 23 33.377 1.1816 1.00 30.91 O CB THR A 23 33.377 1.4510 1.00 30.91 O CB THR A 23 33.377 1.4510 1.00 30.30 O CB THR A 23 33.377 1.4510 1.599 1.3800 1.00 30.18 C C THR A 23 33.377 1.4510 1.599 1.3800 1.00 30.18 C C THR A 23 33.379 1.4516 1.2799 1.00 30.03 O CB THR A 23 33.379 1.4516 1.2799 1.00 30.30 O CB THR A 23 33.379 1.4516 1.2799 1.00 30.03 O CB THR A 23 33.379 1.4516 1.2799 1.00 30.03 O CB THR A 23 33.379 1.4516 1.2799 1.00 30.03 O CB THR A 23 33.379 1.4516 1.2799 1.00 30.03 O CB TRP A 24 33.339 1.0322 1.00 30.30 0 CB TRP A 24 33.339 1.0322 1.00 30.30 0 CB TRP A 24 33.339 1.0322 1.00 30.30 0 CB TRP A 24 33.339 1.0322 1.00 30.30 0 CB TRP A 24 33.339 1.00 32.90 0 CB TRP A 24 33.339 1.00 32.90 0 CB TRP A 24 33.339 1.00 32.90 0 CB TRP A 24 33.339 1.00 32.90 0 CB TRP A 24 33.339 1.00 32.90 0 CB TRP A 24 33.309 1.00 32.90 0 CB TRP A 24 33.309 1.00 32.90 0 CB TRP A 24 33.309 1.00 32.90 0 CB TRP A 24 33.309 1.00 32.90 0 CB	N		A	21	34.033		11.735	1.00	31.53	
OB GLU A 21 15.216 9.306 15.005 1.00 33.46 O CB GLU A 21 15.922 7.178 11.250 1.00 32.25 C CD GLU A 21 13.828 6.028 11.845 1.00 32.25 C CD GLU A 21 13.836 6.028 11.845 1.00 32.25 C OEI GLU A 21 13.890 6.03 11.972 1.00 32.24 N OEZ GLU A 22 36.124 10.300 13.198 1.00 32.246 N CA SER A 22 35.894 12.011 14.852 1.00 33.59 C CS SER A 22 37.742 12.135 13.245 1.00 33.352 C OS SER A 22 37.164 12.198 16.107	CA	GLU	A	21	34.669	8.328	12.915	1.00	32.01	C
CB GLU A 21 15.592 7.178 12.500 1.00 32.25 C CC GLU A 21 34.828 6.028 11.845 1.00 32.20 C CD GLU A 21 33.779 5.403 12.731 1.00 32.65 C CD GLU A 21 33.879 5.403 12.731 1.00 32.65 C CD GLU A 21 33.893 4.693 12.198 1.00 32.66 O CD GLU A 21 33.893 4.693 12.198 1.00 32.86 O CD GLU A 22 36.864 11.236 14.055 1.00 33.59 C CD GLU A 22 36.864 11.236 14.055 1.00 33.55 C CD GLU A 22 36.864 11.236 14.055 1.00 33.55 C CD SER A 22 36.864 11.236 14.055 1.00 33.55 C CD SER A 22 36.024 12.198 16.107 1.00 33.65 C CD SER A 22 36.024 12.198 16.107 1.00 33.65 C CD SER A 22 37.774 12.515 13.245 1.00 33.45 C CD GLU A 23 33.842 12.193 14.222 1.00 33.99 C C THR A 23 33.842 13.388 14.853 1.00 33.99 C C THR A 23 33.842 13.388 14.853 1.00 30.99 C C THR A 23 33.719 12.640 16.017 1.00 30.74 C C CD THR A 23 33.719 12.640 16.017 1.00 30.74 C C CD THR A 23 33.719 13.719 13.800 1.00 30.18 C C CD THR A 23 33.719 13.719 13.800 1.00 30.18 C C CD THR A 23 33.719 13.719 13.800 1.00 30.18 C C CD THR A 23 33.719 13.719 13.800 1.00 30.18 C C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 10.00 30.01 C C THR A 23 33.719 13.719 13.719 13.710 13.710 13.710 C C THR A 24 33.653 13.651 13.719 13.719 13.710 22.00 C THR A 24 33.653 13.6	С	GLU	A	21	35.385		13.770	1.00	32.56	C
CC	0		A	21	35.216	9.306	15.005	1.00	33.46	0
Del	CB	GLU	A	21	35.592	7.178	12.500	1.00	32.25 .	С
OE2	CG	GLU	Α	21	34.828	6.028	11.845	1.00	32.20	C
DE2	CD	GLU	A	21	33.779	5.403	12.731	1.00	32.65	С
OFFI Color	OEI	GLU	A	21	33.806	5.603	13.972	1.00	33.29	0
N								1.00	 	
CA SER A 22 36.864 11.236 14.055 1.00 31.95 C C SER A 22 36.024 12.198 16.107 1.00 33.65 O CB SER A 22 37.774 12.135 13.245 1.00 32.52 C CG SER A 22 37.774 12.135 13.245 1.00 32.45 C CG SER A 22 37.764 12.619 12.073 1.00 33.65 O N THR A 23 34.883 12.592 14.222 1.00 32.30 N N THR A 23 33.842 13.388 14.853 1.00 30.89 C C THR A 23 33.842 13.388 14.853 1.00 30.89 C C THR A 23 33.774 13.60 16.07 1.00 30.74 C C THR A 23 33.791 12.640 16.017 1.00 30.74 C C THR A 23 33.791 12.640 16.017 1.00 30.74 C C THR A 23 33.791 12.640 16.017 1.00 30.74 C C THR A 23 33.754 13.699 13.800 1.00 30.18 C C THR A 23 33.754 13.699 13.800 1.00 30.18 C C THR A 23 33.754 13.699 13.800 1.00 30.18 C C THR A 23 33.75 14.516 12.799 1.00 30.03 O CG THR A 23 33.75 14.516 12.799 1.00 30.03 O CG TRP A 24 32.234 11.934 15.770 1.00 30.66 N CA TRP A 24 32.234 11.934 15.770 1.00 30.66 N CA TRP A 24 32.248 10.519 16.775 1.00 31.12 C C TRP A 24 33.139 10.322 17.989 1.00 31.12 C C TRP A 24 31.899 19.14 16.126 1.00 31.15 C C TRP A 24 31.898 9.174 16.126 1.00 31.15 C C TRP A 24 31.898 9.174 16.126 1.00 30.43 C CB TRP A 24 31.898 9.174 16.126 1.00 30.43 C CDL TRP A 24 31.898 9.174 16.126 1.00 30.43 C CDL TRP A 24 31.898 9.174 16.126 1.00 30.43 C CDL TRP A 24 31.898 9.174 16.126 1.00 30.43 C CDL TRP A 24 30.55 6.403 18.106 1.00 29.04 N CE2 TRP A 24 29.190 9.880 17.723 1.00 29.43 C CDL TRP A 24 29.190 9.880 17.723 1.00 29.43 C CDL TRP A 24 29.190 9.880 17.723 1.00 29.43 C CCZ TRP A 24 29.190 9.880 17.723 1.00 29.43 C CCZ TRP A 24 29.190 9.880 17.723 1.00 29.43 C CCZ TRP A 24 29.190 9.880 17.723 1.00 29.07 C CE TRP A 24 29.100 18.55 6.403 18.186 1.00 29.04 N CCZ TRP A 24 29.100 9.880 17.723 1.00 29.43 C CCZ TRP A 24 27.992 9.600 18.599 1.00 32.67 C CCZ TRP A 24 27.992 9.600 18.599 1.00 32.60 C CCZ TRP A 24 27.992 9.600 18.599 1.00 32.60 C CCZ TRP A 24 27.992 9.600 18.599 1.00 32.60 C CCZ TRP A 24 27.623 8.835 1.9955 1.00 30.80 C CCZ TRP A 24 27.30.445 11.30 1.00 30.60 C CCZ TRP A 24 27.30.445 11.30 1.30 1.00 30.90 C CCZ TRP A 24 27.30.445 11.30 1.00 30.90 C CCZ										
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CA LYS A 25 35.365 10.069 18.950 1.00 32.47 C C LYS A 25 35.384 11.367 19.753 1.00 31.77 C O LYS A 25 35.161 11.344 20.966 1.00 32.00 O CB LYS A 25 36.786 9.706 18.533 1.00 34.20 C CG LYS A 25 36.856 8.568 17.532 1.00 38.74 C CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.487 13.791 19.718 <td< td=""><td>CH2</td><td>TRP</td><td>Α</td><td>24</td><td>27.623</td><td>8.433</td><td>19.274</td><td></td><td>28.30</td><td>C</td></td<>	CH2	TRP	Α	24	27.623	8.433	19.274		28.30	C
C LYS A 25 35.384 11.367 19.753 1.00 31.77 C O LYS A 25 35.161 11.344 20.966 1.00 32.00 O CB LYS A 25 36.856 9.706 18.533 1.00 34.20 C CG LYS A 25 36.856 8.568 17.532 1.00 36.79 C CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N NZ LYS A 25 39.171 5.589 17.033 1.00 40.83 N N LEUA A 26 35.488 12.495 19.055 <td< td=""><td>N</td><td>LYS</td><td>Α</td><td>25</td><td>34.456</td><td>10.210</td><td>17.816</td><td>1.00</td><td>32.36</td><td>N</td></td<>	N	LYS	Α	25	34.456	10.210	17.816	1.00	32.36	N
O LYS A 25 35.161 11.344 20.966 1.00 32.00 O CB LYS A 25 36.786 9.706 18.533 1.00 34.20 C CG LYS A 25 36.856 8.568 17.532 1.00 36.79 C CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.488 12.495 19.055 1.00 30.32 N CA ALA A 26 34.201 14.001 20.527 1.00 30.40 C C ALA A 26 35.654 14.915 18.714 <th< td=""><td>CA</td><td>LYS</td><td>Α</td><td>25</td><td>35.365</td><td>10.069</td><td>18.950</td><td>1.00</td><td>32.47</td><td>C</td></th<>	CA	LYS	Α	25	35.365	10.069	18.950	1.00	32.47	C
O LYS A 25 35.161 11.344 20.966 1.00 32.00 O CB LYS A 25 36.886 9.706 18.533 1.00 34.20 C CG LYS A 25 36.856 8.568 17.532 1.00 36.79 C CD LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.488 12.495 19.055 1.00 30.32 N CA ALA A 26 35.467 13.791 19.718 1.00 29.97 C C ALA A 26 34.201 14.01 20.55 1.00 30.32 N CB ALA A 26 35.654 14.915 18.714	С	LYS	Α	25	35.384	11.367	19.753	1.00	31.77	C
CB LYS A 25 36.786 9.706 18.533 1.00 34.20 C CG LYS A 25 36.856 8.568 17.532 1.00 36.79 C CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.488 12.495 19.055 1.00 30.32 N CA ALA A 26 34.201 14.001 20.527 1.00 30.40 C C ALA A 26 34.274 14.915 18.714 1.00 30.12 C CB ALA A 26 35.654 14.915 18.714 <t< td=""><td></td><td></td><td>A</td><td>25</td><td>35.161</td><td>11.344</td><td>20.966</td><td>1.00</td><td>32.00</td><td>0</td></t<>			A	25	35.161	11.344	20.966	1.00	32.00	0
CG LYS A 25 36.856 8.568 17.532 1.00 36.79 C CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 30.32 N CA ALA A 26 35.467 13.791 19.718 1.00 30.32 N CA ALA A 26 34.201 14.001 20.527 1.00 30.40 C C ALA A 26 35.654 14.915 18.714 1.00 31.66 O CB ALA A 27 33.043 13.626 19.995 <			Α	25	36.786	9.706	18.533	1.00	34.20	С
CD LYS A 25 38.162 7.795 17.623 1.00 38.74 C CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.488 12.495 19.055 1.00 30.32 N CA ALA A 26 35.467 13.791 19.718 1.00 29.97 C C ALA A 26 34.201 14.001 20.527 1.00 30.40 C O ALA A 26 35.654 14.915 18.714 1.00 30.12 C CB ALA A 27 31.798 13.797 20.745 1.00 30.85 C C LEU A 27 31.799 12.936 22.006 <t< td=""><td></td><td></td><td></td><td></td><td>36.856</td><td>8,568</td><td>17.532</td><td>1.00</td><td>36.79</td><td>С</td></t<>					36.856	8,568	17.532	1.00	36.79	С
CE LYS A 25 38.112 6.579 16.685 1.00 39.99 C NZ LYS A 25 39.171 5.589 17.053 1.00 40.83 N N ALA A 26 35.488 12.495 19.055 1.00 30.32 N CA ALA A 26 35.467 13.791 19.718 1.00 29.97 C C ALA A 26 34.201 14.001 20.527 1.00 30.40 C O ALA A 26 34.274 14.526 21.654 1.00 31.66 O CB ALA A 26 35.654 14.915 18.714 1.00 30.12 C N LEU A 27 31.798 13.797 20.745 1.00 30.85 C C LEU A 27 31.470 13.405 23.098 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
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CG LEU A 27 30.244 14.307 18.673 1.00 30.36 C CD1 LEU A 27 28.797 14.053 18.270 1.00 30.28 C CD2 LEU A 27 30.456 15.790 18.910 1.00 30.98 C N LEU A 28 32.181 11.666 21.869 1.00 31.46 N CA LEU A 28 32.202 10.758 23.013 1.00 31.67 C C LEU A 28 33.223 11.167 24.054 1.00 32.22 C O LEU A 28 33.013 10.970 25.258 1.00 33.37 O CB LEU A 28 32.424 9.314 22.544 1.00 30.95 C CG LEU A 28 31.228 8.660 21.830	СВ	LEU	A	27	30.585	13.468	19.896	1.00		
CD1 LEU A 27 28.797 14.053 18.270 1.00 30.28 C CD2 LEU A 27 30.456 15.790 18.910 1.00 30.98 C N LEU A 28 32.181 11.666 21.869 1.00 31.46 N CA LEU A 28 32.202 10.758 23.013 1.00 31.67 C C LEU A 28 33.223 11.167 24.054 1.00 32.22 C O LEU A 28 33.013 10.970 25.258 1.00 33.37 O CB LEU A 28 32.424 9.314 22.544 1.00 30.95 C CG LEU A 28 31.228 8.660 21.830 1.00 30.19 C CD1 LEU A 28 31.560 7.271 21.337		LEU	Α	27	30.244	14.307	18.673	1.00	30.36	C
CD2. LEU A 27 30.456 15.790 18.910 1.00 30.98 C N LEU A 28 32.181 11.666 21.869 1.00 31.46 N CA LEU A 28 32.202 10.758 23.013 1.00 31.67 C C LEU A 28 33.223 11.167 24.054 1.00 32.22 C O LEU A 28 33.013 10.970 25.258 1.00 33.37 O CB LEU A 28 32.424 9.314 22.544 1.00 30.95 C CG LEU A 28 31.228 8.660 21.830 1.00 30.19 C CD1 LEU A 28 31.560 7.271 21.337 1.00 28.60 C CD2 LEU A 28 30.002 8.622 22.744				27	28.797	14.053	18.270	1.00	30.28	C
N LEU A 28 32.181 11.666 21.869 1.00 31.46 N CA LEU A 28 32.202 10.758 23.013 1.00 31.67 C C LEU A 28 33.223 11.167 24.054 1.00 32.22 C O LEU A 28 33.013 10.970 25.258 1.00 33.37 O CB LEU A 28 32.424 9.314 22.544 1.00 30.95 C CG LEU A 28 31.228 8.660 21.830 1.00 30.19 C CD1 LEU A 28 31.560 7.271 21.337 1.00 28.60 C CD2 LEU A 28 30.002 8.622 22.744 1.00 29.86 C			 							
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C LEU A 28 33.223 11.167 24.054 1.00 32.22 C O LEU A 28 33.013 10.970 25.258 1.00 33.37 O CB LEU A 28 32.424 9.314 22.544 1.00 30.95 C CG LEU A 28 31.228 8.660 21.830 1.00 30.19 C CD1 LEU A 28 31.560 7.271 21.337 1.00 28.60 C CD2 LEU A 28 30.002 8.622 22.744 1.00 29.86 C										
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N ALA A 29 34.295 11.843 23.649 1.00 32.19 N	CD2	LEU	Α							
	N	ALA	A	29	34.295	11.843	23.649	1.00	32.19	[N

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					<u> </u>			,	
CA	ALA	A	29	35.302	12.346	24.565	1.00	31.97	C
C	ALA	A	29	34.965	13.745	25.063	1.00	32.74	С
ō	ALA	A	29	35.830	14.417	25.632	1.00	33.76	0
	ALA	A	29	36.675	12.342	23.893	1.00	30.85	С
CB					14.238	24.824	1.00	32.92	N
N	GLY	A	30	33.761	 	25.232	1.00	33.16	Ċ
CA	GLY	Α	30	33.297	15.529			-	_
C	GLY	A	30	34.121	16.708	24.757	1.00	34.03	C
0	GLY	A	30	34.194	17.728	25.454	1.00	33.69	0
Z	GLN	A	T 31	34.712	16.630	23.571	1.00	35.19	N
CA	GLN	A	31	35.478	17.738	23.014	1.00	36.06	С
C	GLN	A	31	34.564	18.823	22.454	1.00	35.59	С
	+		31	33.447	18.518	22.014	1.00	36.40	0
0	GLN	A				21.915	1.00	37.41	c
СВ	GLN	A	31	36.414	17.217		+		
CG	GLN	A	31	37.802	16.866	22.389	1.00	39.45	C
CD	GLN	A	31	38.613	16.003	21.451	1.00	40.61	C
OEI	GLN	Α	31	38.690	16.219	20.241	1.00	41.07	0
NE2	GLN	Α	31	39.278	14.977	21.999	1.00	41.32	N
N	SER	A	32	35.018	20.075	22.452	1.00	33.36	N
			32	34.222	21.154	21.881	1.00	32.18	c
CA	SER	A			21.584	20.549	1.00	32.02	c
<u> </u>	SER	A	32	34.851	+		+		
0	SER	A	32	36.060	21.425	20.377	1.00	32.16	0
СВ	SER	.A	32	34.092	22.344	22.816	1.00	31.37	C
OG	SER	A	32	33.391	23.419	22.212	1.00	29.60	<u> </u>
N	GLY	A	33	34.043	22.121	19.642	1.00	30.46	l N
CA	GLY	A	33	34.570	22.558	18.354	1.00	29.56	C
c	GLY	A	33	34.467	24.072	18.211	1.00	28.85	C
			\rightarrow	34.791	24.628	17.163	1.00	28.54	0
0	GLY	A	33		24.719	19.253	1.00	28.51	N
N	ILE	A	34	33.969					c
CA	ILE	A	34	33.770	26.156	19.246	1.00	29.03	
C	ILE	Α	34	35.088	26.919	19.316	1.00	31.01	<u> C</u>
0	ILE	T _A	34	36.044	26.565	20.003	1.00	31.09	10
СВ	ILE	A	34	32.828	26.605	20.374	1.00	27.97	C
CG1	ILE	A	34	31.627	25.675	20.480.	1.00	27.70	С
	ILE	A	34	32.375	28.046	20.158	1.00	27.56	С
CG2				30.926	25.332	19.193	1.00	27.39	С
CDI	ILE	A	34		28.018	18.554	1.00	32.43	N
N	SER	Α _	35	35.138					C
CA	SER	Α	35	36.346	28.809	18.448	1.00	33.74	
С	SER	Α	35	36.080	30.239	18.016	1.00	33.57	C
0	SER	Α	35	34.999	30.610	17.564	1.00	33.76	<u> </u>
СВ	SER	A	35	37.304	28.154	17.427	1.00	34.84	
ŌĞ	SER	A	35	38.306	27.456	18.170	1.00	37.72	0
			36	37.123	31.056	18.147	1.00	33.30	N
N	LEU	A		37.005	32.455	17.748	1.00	32.80	С
CA_	LEU	<u> </u>	36				1.00	32.03	c
<u>C</u>	LEU	A	36	37.052	32.549	16.228			
0	LEU	Α	36	37.848	31.904	15.555	1.00	30.53	<u> </u>
СВ	LEU	Α	36	38.081	33.316	18.400	1.00	33.47	<u>C</u>
CG	LEU	A	36	37.978	33.525	19.919	1.00	33.68	<u>C</u>
CDI	LEU	A	36	39.228	34.215	20.435	1.00	34.01	С
CD2	LEU	A	36	36.741	34.337	20.280	1.00	33.48	С
		Â	37	36.144	33.366	15.713	1.00	32.62	N
N	ILE				200	14.266	1.00	32.27	C
CA_	ILE	A	37	36.052	33.596	13.866		33.50	c
С	ILE	A	37	37.234	34.456		1.00		
0	ILE	Α	37	- 37.536	35.417	14.575	1.00	34.14	10
СВ	ILE	Α	37	34.730	34.316	13.961	1.00	31.61	C
CGI	ILE	A	37	33.573	33.312	13.932	1.00	30.43	
CG2	ILE	A	37	34.812	35.106	12.666	1.00	31.81	C
	ILE	Â	37	32.227	33.902	14.284	1.00	29.18	c
CDI				37.947	34.146	12.798	1.00	36.45	N
N	ASP	A	38			12.421	1.00	38.42	c
CA	ASP	A	38	39.076	35.005				
С	ASP	A	38	39.047	35.372	10.951	1.00	38.45	C
0	ASP	Α	38	39.881	36.176	10.520	1.00	38.84	0
CB	ASP	A	38	40.394	34.326	12.797	1.00	40.40	C
		HÂ-	38	40.402	32.903	12.257	1.00	42.60	С
CG	ASP			40.644	32.740	11.043	1.00	43.69	0
ODI	ASP	<u> </u>	38					44.53	ő
OD2	ASP	A	38	40.106	31.982	13.045	1.00		
N	HIS	Α	39	38.003	34.975	10.218	1.00	38.59	N
CA	HIS	A	39	37.926	35.284	8.792	1.00	38.54	<u></u>
C	HIS	A	39	37.217	36.591	8.487	1.00	38.34	<u> c</u>
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0	HIS	Α	39	37.094	36.980	7.321	1.00	38.38	10
CB	HIS	A	39	37.332	34.130	7.991	1.00	38.62	l c
CG	HIS	A	39	36.023	33.615	8.480	1.00	39.30	- c
NDI	HIS	A	39	35.901	32.834	9.610	1.00	40.20	N
CD2	HIS	A	39	34.768	33.780	7.997	1.00	39.04	C
CEI	HIS	A	39	34.625	32.533	9.798	1.00	39.85	c
NE2	HIS	A	39	33.921	33.101	8.833	1.00	39.44	N
N	PHE	<u> </u>	40	36.775	37.315	9.496	1.00	38.47	N
CA	PHE	A	40	36.168	38.633	9.305	1.00	38.57	С
C	PHE	A	40	36.307	39.420	10.609	1.00	39.55	С
СВ	PHE	A	40	36.427	38.804	11.671	1.00	39.71	0
CG	PHE	A	40	34.758	38.544	8.806	1.00	37.77	С
CDI	PHE	A	40	33.645	38.078	9.681	1.00	36.91	С
CD2	PHE	- A	40	33.136	36.796	9.553	1.00	36.30	С
CEI	PHE	A	40	33.023	38.931	10.582	1.00	36.50	С
CE2	PHE	 ^	40	32.078	36.365	10.325	1.00	36.32	С
d	PHE	A	40	31.968	38.506	11.357	1.00	36.47	C
N		A	40	31.493	37.215	11.240	1.00	36.21	C
CA	ASP	- A	41	36.441	40.735	10.523	1.00	40.59	N
c	ASP	- A	41	36.619	41.528	11.749	1.00	42.02	. c
0	ASP	A	41	35.370	41.430	12.610	1.00	41.11	C
CB	ASP	A	41	34.291	41.785	12.136	1.00	41.74	0
CG	ASP	A	41	36.952	42.972	11.390	1.00	43.80	С
ODI	ASP	A	41	37.737	43.667	12.486	1.00	45.45	С
OD2	ASP	A	41	38.750 37.345	43.090	12.935	1.00	46.51	0
N	THR	Ä	42	35.478	44.779	12.895	1.00	46.80	0
CA	THR	Ā	42	34.321	40.951	13.839	1.00	40.44	N
C	THR	A	42	34.224	41.828	14.706	1.00	40.50	С
0	THR	A	42	33.347	41.734	15.807	1.00	40.76	C
СВ	THR	A	42	34.295	39.379	16.675	1.00	40.62	10
OGI	THR	A	42	35.528	39.130	15.352	1.00	40.02	С
CG2	THR	A	42	34.100	38.290	14.308	1.00	39.27	0
N	SER	A	43	35.051	42.859	15.744	1.00	39.67	С
CA	SER	Α	43	35.114	43.915	16.740	1.00	41.65	N
C	SER	A	43	33.764	44.533	17.050	1.00	41.97	C
0	SER	A	43	33.431	44.735	18.230	1.00	41.66	C
CB	SER	Α	43	36.093	45.012	16.302	1.00	42.49	C
OG	SER	A	43	35.789	45.413	14.971	1.00	44.87	0
N	ALA	Α	44	32.958	44.828	16.034	1.00	40.22	N
CA	ALA	Α	44	31.642	45.406	16.288	1.00	39.07	Ċ
<u>c</u>	ALA	Α	44	30.582	44.357	16.589	1.00	38.38	c
0	ALA	A	44	29.423	44.734	16.810	1.00	39.11	ő
СВ	ALA	A	44	31.208	46.211	15.064	1.00	39.04	lč l
N	TYR	Α	45	30.911	43.070	16.572	1.00	36.80	N
CA	TYR	A	45	29.924	42.025	16.761	1.00	35.25	c ·
<u>c </u>	TYR	Α	45	29.768	41.583	18.197	1.00	34.29	c
0	TYR	Α	45	30.735	41.526	18.958	1.00	35.60	Ö
CB	TYR	A	45	30.276	40.829	15.864	1.00	35.92	c
CG	TYR	A	45	30.039	41.091	14.391	1.00	36.02	c
CD1	TYR	A	45	30.930	41.877	13.664	1.00	36.12	С
CD2	TYR	A	45	28.944	40.551	13.727	1.00	35.78	С
CEI	TYR	A	45	30.721	42.140	12.321	1.00	35.54	С
CE2	TYR	A	45	28.735	40.799	12.380	1.00	35.49	С
CZ	TYR	A	45	29.621	41.592	11.692	1.00	35.82	С
OH	TYR	A	45	29.435	41.833	10.351	1.00	37.58	0
N CA	ALA	A	46	28.556	41.188	18.571	1.00	32.36	N .
CA	ALA	A	46	28.245	40.750	19.929	1.00	31.00	С
<u> </u>	ALA	A	46	28.587	39.287	20.162	1.00	30.09	С
0	ALA	A	46	28.536	38.763	21.281	1.00	30.77	0
CB I	ALA	A	46	26.769	41.000	20.237	1.00	29.78	C
N I	THR	A	47	28.832	38.560	19.098	1.00	29.39	N
CA	THR	Α	47	29.274	37.171	19.162	1.00	29.14	С
2	THR	A	47	30.518	37.099	18.273	1.00	29.84	С
-	THR	A	47	30.500	37.554	17.120	1.00	29.99	0
_B	THR	A	47	28.209	36.160	18.763	1.00	28.64	С
OGI	THR	Α	47	27.018	36.347	19.549	1.00	26.79	0
CG2	THR	Α	47	28.730	34.739	18.992	1.00	27.92	С

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N	LYS	I A	48	31.607	36.614	18.844	1.00	30.40	N
CA	LYS	A	48	32.866	36.561	18.111	1.00	31.75	† ;
С	LYS	A	48	33.337	35.135	17.911	1.00	31.94	c
0	LYS	A	48	34.499	34.911	17.538	1.00	33.23	0
CB	LYS	A	48	33.936	37.388	18.833	1.00	33.40	c
CG	LYS	A	48	33.425	38.325	19.913	1.00	34.99	t
CD	LYS	A	48	34.435	39.384	20.296	1.00	36.14	Č
CE	LYS	A	48	34.249	40.674	19.509	1.00	36.82	Ċ
NZ	LYS	A	48	33.140	41.508	20.060	1.00	37.15	N
N	PHE	A	49	32.433	34.182	18.140	1.00	31.02	N
CA	PHE	A	49	32.807	32.777	18.010	1.00	30.48	c
С	PHE	A	49	31.747	31.913	17.344	1.00	30.81	c
0	PHE	A	49	30.561	32.225	17.292	1.00	30.88	10
СВ	PHE	Α	49	33.110	32.226	19.413	1.00	29.09	c
CG	PHE	Α	49	31.914	32.281	20.325	1.00	28.73	c
CDI	PHE	A	49 `	31.032	31.225	20.409	1.00	28.37	c
CD2	PHE	Α	49	31.685	33.400	21.114	1.00	28.99	c
CEI	PHE	A	49	29.947	31.281	21.267	1.00	29.19	c .
CE2	PHE	A	49	30.593	33.466	21.957	1.00	28.39	c
CZ	PHE	Ā	49	29.720	32.401	22.041	1.00	28.17	c
N	ALA	A	50	32.193	30.761	16.845	1.00	31.01	N
CA	ALA	Α	50	31.329	29.803	16.187	1.00	30.91	C
С	ALA	Α	50	31.951	28.410	16.154	1.00	31.13	C
Ō	ALA	A	50	33.063	28.170	16.607	1.00	31.32	0
СВ	ALA	A	50	31.048	30.264	14.758	1.00	30.31	c
z	GLY	Α	51	31.191	27.470	15.612	1.00	31.33	N
CA	GLY	A	51	31.707	26.114	15.400	1.00	31.92	C
C	GLY	A	51	32.119	26.098	13.905	1.00	32.48	c
0	GLY	A	51	31.249	26.054	13.042	1.00	31.41	10
N .	LEU	A	52	33.409	26.221	13.650	1.00	33.16	N
CA	LEU	A	52	33.924	26.250	12.289	1.00	33.73	c
С	LEU	Α	52	34.613	24.952	11.886	1.00	34.33	c
0	LEU	Α	52	35.176	24.241	12.710	1.00	34.72	6
CB	LEU	Α	52	34.888	27.424	12.127	1.00	33.94	c
CG	LEU	A	52	34.364	28.806	12.525	1.00	34.26	c
CDI	LEU	A	52	35.497	29.657	13.078	1.00	33.88	c
CD2	LEU	Α	52	33.698	29.515	11.354	1.00	33.97	c
N	VAL	A	53	34.539	24.625	10.602	1.00	35.38	N
CA	VAL	Α	53	35.180	23.418	10.060	1.00	36.67	c
C,	VAL	A	53	36.657	23.748	9.883	1.00	39.49	c
0	VAL	A	53	36.983	24.713	9.185	1.00	39.50	lö l
СВ	VAL	Α	53	34.492	22.991	8.765	1.00	35.64	č
CGI	VAL	A	53	35.288	21.993	7.943	1.00	34.33	c
CG2	VAL	Α	53	33.113	22.403	9.098	1.00	34.62	č
N	LYS	A	54	37.535	23.040	10.588	1.00	42.77	N
CA	LYS	A	54	38.955	23.337	10.595	1.00	46.02	c
С	LYS	A	54	39.807	22.528	9.634	1.00	48.60	c
0	LYS	Α	54	39.695	21.320	9.468	1.00	48.51	ō
CB	LYS	A	54	39.498	23.184	12.031	1.00	46.00	č
CG	LYS	A	54	38.765	24.095	13.013	1.00	46.36	Č
CD	LYS	A	54	38.735	23.509	14.408	1.00	46.28	č
CE	LYS	A	54	37.330	23.395	14.954	1.00	46.49	c
NZ	LYS	A	54	36.792	24.669	15.488	1.00	46.54	N
N	ASP	A	55	40.730	23.244	8.991	1.00	52.11	N
CA	ASP	Α	55	41.654	22.694	8.012	1.00 ·	55.06	С
С	ASP	Α	55	40.927	21.790	7.030	1.00	56.01	c
0	ASP	Α	55	41.110	20.579	6.985	1.00	56.42	ō
СВ	ASP	A	55	42.813	21.976	8.707	1.00	56.66	c
CG	ASP	Α	55	43.718	22.953	9.441	1.00	58.45	c
OD1	ASP	A	55	44.364	23.795	8.777	1.00	59.28	Ö
OD2	ASP	A	55	43.773	22.897	10.692	1.00	59.47	Ö
N	PHE	A	56	40.060	22.409	6.230	1.00	57.29	N
CA	PHE	A	56	39.245	21.657	5.276	1.00	58.33	C
С	PHE	Α	56	39.919	21.613	3.915	1.00	59.60	c
0	PHE	Α	56	40.252	22.646	3.339	1.00	60.07	0
СВ	PHE	A	56	37.845	22.257	5.201	1.00	57.68	$\frac{\sigma}{c}$
CG	PHE	A	56	37.061	21.988	3.953	1.00	56.82	c
CDI	PHE	A	56	36.509	20.746	3.707	1.00	56.49	c
							3.00	30.77	

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CD2	PHE	A	56	1 36.868	22.997	3.019	1.00	56.58	Tc
CEI	PHE	A	56	1 35.791	20.514	2.548	1.00	56.82	c
CE2	PHE	A	56	36.143	22.774	1.868	1.00		
CZ	PHE	A	56	35.602	21.526	1.630	1.00	56.36	C
N	ASN	A	57	40.137	20.409			56.45	C
CA	ASN	A	57	40.716		3.416	1.00	61.48	N
C	ASN				20.206	2.094	1.00	63.34	c
6		A	57	39.632	19.660	1.162	1.00	64.04	<u> C</u>
	ASN	_ A	. 57	38.720	18.963	1.625	1.00	64.29	0
СВ	ASN	Α	57	41.890	19.230	2.145	1.00	64.21	С
CG	ASN	A	57	43.104	19.746	1.398	1.00	65.21	C
ODI	J ASN	A	57	43.551	20.872	1.641	1.00	65.56	0
ND2	ASN	A	57	43.643	18.932	0.497	1.00	65.37	N
N	CYS	A	58	39.697	20.028	-0.111	1.00	64.22	
CA	CYS	Α	58	38.699	19.538	1.061			N
С	CYS	A	58	39.324			1.00	64.43	C
ō	CYS	A			19.389	-2.440	1.00	64.92	C
CB			58	38.766	18.709	-3.292	1.00	64.47	10
	CYS	A	58	37.460	20.414	-1.089	1.00	64.20	C
SG	CYS	A	58	37.608	22.077	-1.749	1.00	63.44	S
N	GLU	A	59	40.546	19.874	-2.582	1.00	66.16	N
CA	GLU	A	59	41.317	19.859	-3.808	1.00	67.17	С
С	GLU	A	59	41.375	18.503	-4.492	1.00	67.32	c
0	GLU	Α	59	41.243	18.412	-5.723	1.00	67.05	0
CB	GLU	Α	59	42.735	20.381	-3.532	1.00		C
CG	GLU	A	59	43.232	21.362			67.79	
CD	GLU	A	59			-4.580	1.00	69.05	<u></u>
OEI				43.519	22.742	-4.027	1.00	69.60	C
	GLU	A	59	44.508	23.377	-4.462	1.00	70.20	0
OE2	GLU	A	59	42.755	23.220	-3.164	1.00	69.62	0
N	ASP	Α	60	41.473	17.426	-3.729	1.00	67.11	N
CA	ASP	A	60	41.451	16.077	-4.254	1.00	67.51	C
C	ASP	A	60	40.105	15.759	-4.909	1.00	67.42	c
0	ASP	A	60	40.041	15.013	-5.885	1.00	67.17	Ö
СВ	ASP	T A	60	41.749	15.045	-3.175	1.00	68.43	c
CG	ASP	Α	60	42.080	15.567	-1.798	1.00		
ODI	ASP	A	60	42.745	16.618	-1.651		69.14	<u> </u>
OD2	ASP	A	60	41.707			1.00	69.37	0
N	ILE				14.871	-0.819	1.00	69.27	10
CA	-	A	61	39.022	16.292	-4.357	1.00	67.60	_ N
	ILE	A	61	37.674	16.071	-4.832	1.00	67.38	С
<u>C</u>	ILE	Α	61	37.180	17.149	-5.787	1.00	67.54	C
0	ILE	A	61	36.497	16.848	-6.770	1.00	67.93	0
CB	ILE	A	61	36.667	15.988	-3.664	1.00	67.40	c
CGI	ILE	A	61	37.311	15.408	-2.413	1.00	67.80	C
CG2	ILE	A	61	35.449	15.180	-4.083	1.00	67.34	Ċ
CDI	ILE	Α	61	37.777	13.973	-2.513	1.00		C
N	ILE	A	62	37.391	18.412			68.03	
CA	ILE	A	62			-5.440	1.00	67.52	N
C	ILE			36.982	19.529	-6.274	1.00	67.98	C
		A	62	38.205	20.343	-6.706	1.00	68.48	С
O CP:	ILE	A	62	38.999	20.776	-5.872	1.00	68.15	0
CB:	ILE	A	62	35.993	20.477	-5.575	1.00	68.14	С
CG1	ILE	A	62	34.855	19.723	-4.881	1.00	67.67	С
CG2	ILE	A	62	35.412	21.476	-6.575	1.00	67.87	C
CDI	ILE	Α	62	34.527	20.263	-3.510	1.00	67.28	c
N	SER	Α	63	38.310	20.600	-8.002	1.00	69.51	N
CA	SER	Α	63	39.417	21.370	-8.554	1.00	70.54	c
С	SER	Α	63	39.290	22.856	-8.265	1.00	70.89	
ō	SER	A	63	38.176	23.377	-8.181			C
CB	SER	Ā	63	39.443			1.00	71.31	0
OG					21.182	-10.081	1.00	71.01	C
	SER	A	63	38.191	21.601	-10.622	1.00	71.28	0
N N	ARG	A	64	40.407	23.574	-8.237	1.00	71.13	N
CA	ARG	A	64	40.418	25.011	-7.990	1.00	70.88	С
<u>c</u>	ARG	Α	64	39.638	25.800	-9.027	1.00	69.35	С
0	ARG	Α	64	39.069	26.861	-8.737	1.00	69.23	o
CB	ARG	A	64	41.859	25.524	-7.905	1.00	72.62	C
CG	ARG	A	64	42.772	24.624	-7.080	1.00	74.72	
CD	ARG	A	64	43.816	23.964	-7.969			Ç .
NE	ARG						1.00	76.13	C
cz		A	64	44.540	22.911	-7.262	1.00	77.32	N
	ARG	A	64	45.834	22.661	-7.436	1.00	78.17	<u>C</u>
NHI	ARG	A	64	46.546	23.383	-8.294	1.00	78.63	N
NH2	ARG	_A	64	46.395	21.679	-6.743	1.00	78.58	N

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N	LYS	A	65	39.566	25.310	-10.259	1.00	67.53	N
CA	LYS	A	65	38.788	25.972	-11.298	1.00	65.69	c
<u>ç</u>	LYS	<u> </u>	65	37.295	25.760	-11.038	1.00	63.81	c
CB	LYS	A	65	36.479	26.601	-11.405	1.00	63.43	0
CG	LYS	A	65	39.167	25.454	-12.682	1.00	66.44	C
CD	LYS	A	65	40.622	25.665	-13.056	1.00	67.23	C
CE	LYS	- A	65	40.858	27.006	-13.722	1.00	67.48	С
NZ	LYS	- A	65	41.632	26.857	-15.022	1.00	67.88	С
N	GLU	- A	65	41.367	27.998	-15.950	1.00	67.80	N
CA	GLU	1 A	66	36.945	24.645	-10.402	1.00	61.40	N
c	GLU	- A	66	35.560	24.328	-10.097	00.1	59.42	С
6	GLU	A	66	35.121	24.864	-8.741	1.00	57.68	С
CB	GLU	TA -	66	33.927	25.012	-8.469	1.00	57.07	0
CG	GLU	TA A	66	35.341	22.812	-10.174	1.00	59.70	С
CD	GLU	1 A	66	35.295	22.297	-11.605	1.00	60.10	С
OEI	GLU	Â	66	33.929	22.447	-12.245	1.00	60.14	С
OE2	GLU	1Â	66	33.820	23.096	-13.304	1.00	59.46	0
N	GLN	Ā	67	32.952 36.076	21.907	-11.682	1.00	60.54	0
CA	GLN	A	67	35.842	25.201	-7.893	1.00	55.83	N
С	GLN	Â	67	35.173	25.754	-6.574	1.00	54.78	С
ō	GLN	A	67	34.343	27.125	-6.634	1.00	53.83	C
СВ	GLN	A	67	37.175	25.908	-5.803	1.00	53.09	0 .
CG	GLN	A	67	37.455	24.916	-5.842 -4.738	1.00	55.38	C
CD	GLN	A	67	38.776	25.233	-4.052	1.00	56.07	<u> c</u>
OEI	GLN	A	67	38.931	26.290	-3.447	1.00	56.50	C
NE2	GLN	A	67	39.720	24.308	-4.163	1.00	56.45	0
N	ARG	A	68	35.525	27.914	7.632	1.00	57.61	N
CA	ARG	A	68	35.065	29.247	-7.896	1.00	53.40	N C
С	ARG	Α	68	33.615	29.368	-8.330	1.00	52.43 49.54	C
0	ARG	Α	68	33.100	30.491	-8.400	1.00	49.30	C
CB	ARG	Α	68	35.932	29.890	-9.011	1.00	55.50	c
CG	ARG	Α	68	36.265	31.348	-8.741	1.00	58.96	i c
CD	ARG	Α	68	36.100	32.210	-9.982	1.00	61.92	c
NE	ARG	A	68	35.231	33.368	-9.770	1.00	64.11	N
CZ_	ARG	A	68	35.580	34.490	-9.149	1.00	64.77	C
NHI	ARG	A	68	36.802	34.633	-8.651	1.00	65.05	N
NH2	ARG	Α	68	34.710	35.487	-9.015	1.00	65.20	N
N	LYS	A	69	32.948	28.275	-8.649	1.00	45.91	N
CA	LYS	Α	69	31.545	28.298	-9.044	1.00	43.05	C
<u>č</u>	LYS	A	69	30.648	27.848	-7.896	1.00	40.79	С
<u>0</u>	LYS	A	69	29.514	27.405	-8.079	1.00	40.97	0
CB	LYS	A	69	31.343	27.323	-10.216	1.00	42.96	С
CG CD	LYS	<u>A</u>	69	32.404	27.462	-11.299	1.00	43.11	С
CE	LYS	A	69	32.480	26.204	-12.151	1.00	42.58	C
NZ	LYS	A	69	31.895	26.456	-13.532	1.00	42.02	С
N N	LYS	A	69	32.812	25.970	-14.605	1.00	41.64	N
CA	MET	A	70	31.191	27.869	-6.687	1.00	37.50	N
C	MET	A	70	30.633	27.175	-5.555	1.00	34.98	C ·
0	MET	A	70	30.758	27.902	-4.223	1.00	32.38	U
CB CB	MET	A	70	31.871 31.425	28.210	-3.798	1.00	32.03	0
cc	MET	Â	70	30.888	25.864 24.645	-5.366	1.00	35.08	С
SD	MET	Ā	70	31.957	23.217	-6.066	1.00	35.01	С
CE	MET	Ā	70	31.632	22.233	-5.694	1.00	35.60	<u>s</u>
N	ASP	Ā	71	29.633	28.071	-7.165	1.00	35.07	<u>c</u>
CA	ASP	Ā	71	29.750	28.647	-3.536	1.00	29.01	N
C .	ASP	A	71	30.244	27.526	-2.186	1.00	27.17	<u>c</u>
5	ASP	A	71	30.018	26.329	-1.274	1.00	26.77	<u>c</u>
СВ	ASP	A	71	28.432	29.242	-1.542	1.00	26.15	<u> </u>
CG	ASP	A	71	28.364	29.693	-1.766 -0.330	1.00	26.38	<u>c</u>
IDO	ASP	A	71	28.165	28.817		1.00	26.16	<u>c</u>
DD2	ASP	A	71	28.481	30.909	-0.081	1.00	26.10	<u> </u>
1	ALA	A	72	30.909	27.882	-0.081	1.00	25.93	<u> </u>
:A	ALA	A	72	31.419	26.919	0.780	1.00	25.21	N
	ALA	A	72	30.381	25.913	1.237	1.00	23.86	<u>c</u>
	ALA	A	72	30.727	24.742	1.469	1.00	23.27	<u> </u>
B	ALA	A	72	32.018	27.654	1.980	1.00	23.23	<u>-</u>
						1.700	1.00	24.17	C

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N	PHE	A	73	29.111	26.282	1.386	1.00	22.52	N
CA	PHE	A	73	28.109	25.289	1.788	1.00	22.41	С
С	PHE	A	73	28.012	24.159	0.777	1.00	23.21	С
0	PHE	A	73	27.924	22.992	1.186	1.00	24.39	0
СВ	PHE	A	73	26.774	25.940	2.069	1.00	21.58	С
CG	PHE	Α	73	25.743	25.898	0.995	1.00	20.70	С
CD1	PHE	A	73	24.736	24,944	1.023	1.00	20.86	c
CD2	PHE	T A	73	25.785	26.798	-0.053	1.00	20.41	c
CEI	PHE	Ā	73	23.781	24.891	0.026	1.00	21.03	c
CE2	PHE	A	73	24.823	26.765	-1.046	1.00	20.99	Č
CZ	PHE	A	73	23.822	25.810	-1.008	1.00	20.90	c
N	ILE	Ā	74	28.066	24.445	-0.515	1.00	23.43	N
CA	ILE	A	74	28.063	23.404	-1.537	1.00	24.79	C
C	ILE	-	74	29.339	22.570	-1.443	1.00	25.35	c
		A	74	29.338	21.345	-1.565	1.00	25.40	0
O CP	ILE	A			+		1		c
CB	ILE	A	74	27.946	24.049	-2.933	1.00	25.11	
CG1	ILE	A	74	26.533	24.620	-3.124	1.00	23.99	C
CG2	ILE	. A	74	28.280	23.077	-4.053	1.00	24.54	C
CDI	ILE	A	74	26.463	25.656	-4.221	1.00	23.46	C
N	GLN	A	75	30.468	23.238	1.217	1.00	25.23	N
CA	GLN	A	75	31.747	22.553	-1.090	1.00	26.02	C
c	GLN	Α	75	31.699	21.484	-0.008	1.00	25.95	C
0	GLN	A	75	32.145	20.358	-0.216	1.00	26.78	0
СВ	GLN	A	75	32.871	23.546	-0.806	1.00	26.42	C
CG	GLN	A	· 75	33.332	24.282	-2.062	1.00	28.06	C
CD	GLN	A	75	34.302	25.389	-1.689	1.00	29.61	Ç
OEI	GLN	A	75	35.078	25.201	-0.737	1.00	31.73	0
NE2	GLN	Α	75	34.262	26.508	-2.390	1.00	28.55	N
N	TYR	Α	76	31.183	21.843	1.155	1.00	25.75	N
CA	TYR	A	76	31.012	20.945	2.284	1.00	24.59	C
C	TYR	A	76	30.091	19.783	1.905	1.00	25.40	<u>C</u>
0	TYR	A	76	30.453	18.620	2.090	1.00	26.52	0.
CB	TYR	A	76	30.418	21.710	3.456	1.00	23.32	С
CG	TYR	A	76	31.291	22.727	4.146	1.00	23.16	C
CDI	TYR	A	76	30.789	23.430	5.249	1.00	22.41	С
CD2	TYR	Α	76	32.593	23.002	3.755	1.00	22.62	C
CEI	TYR	A	76	31.549	24.362	5.915	1.00	22.33	С
CE2	TYR	Α	76	33.366	23.944	4.395	1.00	21.92	С
cz	TYR	A	76	32.842	24.622	5.477	1.00	23.20	С
ОН	TYR	A	76	33.608	25.548	6.155	1.00	22.62	0
N	GLY	Α	77	28.927	20.091	1.335	1.00	24.29	N
CA	GLY	A	77	27.960	19.090	0.948	1.00	23.68	C
С	GLY	Α	77	28.532	18.017	0.040	1.00	24.17	C
0	GLY	A	77	28.286	16.831	0.258	1.00	24.09	0
N	ILE	A	78	29.208	18.420	-1.031	1.00	24.69	N
CA	ILE	A	78	29.852	17.512	-1.963	1.00	24.28	С
C	ILE	A	78	30.854	16.603	-1.263	1.00	24.34	C
0	ILE	A	78	30.693	15.382	-1.276	1.00	24.29	0
СВ	ILE	A	78	30.586	18.300	-3.074	1.00	24.14	С
CGI	ILE	A	78	29.568	19.116	-3.859	1.00	24.40	С
CG2	ILE	A	78	31.358	17.347	-3.975	1.00	24.03	С
CDI	ILE	A	78	30.086	19.834	-5.084	1.00	24.19	c
N N	VAL	A	79	31.854	17.194	-0.603	1.00	23.70	N
CA	VAL.	A	79	32.878	16.422	0.095	1.00	23.40	c
C C	VAL	Ā	79	32.243	15.394	1.017	1.00	24.44	c
0	VAL	A	79	32.638	14.232	0.981	1.00	25.15	ō
СВ	VAL	Ā	79	33.858	17.307	0.874	1.00	23.00	c
CGI	VAL	Â	79	34.656	16.524	1.907	1.00	22.25	c
CG2		Ā	79	34.830	18.006	-0.077	1.00	22.73	c
	ALA	A	80	31.258	15.787	1.820	1.00	25.12	N
N C			80	30.575	14.849	2.700	1.00	25.90	c
CA	ALA	A			• -	-		27.36	c
<u>c</u>	ALA	A	80	29.765	13.840	1.895	1.00		
0	ALA	A	80	29.609	12.695	2.314	1.00	28.42	0
СВ	ALA	A	80	29.689	15.571	3.690	1.00	24.87	C
N	GLY	A	81	29.235	14.245	0.749	1.00	28.62	N
CA	GLY	A	81	28.466	13.337	-0.097	1.00	30.56	C
С	GLY	A	81	29.379	12.247	-0.652	1.00	32.31	C
0	GLY	A .	81	29.048	11.061	-0.608	1.00	32.11	10 1

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N.	VAL	A	82	30.556	12.667	-1.132	1 00	32.99	N
CA	VAL	A	82	31.535	11.714	-1.646	1.00	33.88	 i c -
<u></u>	VAL	A	82	31.827	10.661	-0.586	1.00	35.83	c
0	VAL	A	82	31.598	9.465	-0.785	1.00	37.36	ō
СВ	VAL	A	82	32.826	12.415	-2.082	1.00	33.65	C
CG1	VAL	A	82	33.943	11.418	-2.341	1.00	32.35	c
CG2	VAL	A	82	32.578	13.263	-3.334	1.00	33.37	c
N	GLN	A	83	32.170	11.110	0.617	1.00		
CA	GLN	A	83	32.387	10.238	1.757	1.00	36.36	N
C	GLN	A	83	31.271	9.199	1.851	1.00	36.77	C
0	GLN	A	83	31.534	8.003	1.903		36.63	_ C
СВ	GLN	A	83	32.437			1.00	37.55	10
CG	GLN	A	83		11.041	3.056	1.00	36.97	C
CD	GLN	A	83	33.765	11.611	3.489	1.00	36.84	l C
OEI	GLN	Ā		33.698	12.194	4.888	1.00	38.07	С
NE2	GLN	A	83	33.123	11.581	5.796	1.00	39.74	0
N			83	34.247	13.375	5.119 ,	1.00	37.60	N
$\overline{}$	ALA	A	84	30.028	9.661	1.864	1.00	36.63	N
CA	ALA	A	84	28.872	8.782	1.983	1.00	36.65	С
<u> </u>	ALA	Α	84	28.805	7.776	0.849	1.00	36.36	С
0	ALA	A	84	28.499	6.613	1.097	1.00	35.48	0
CB	ALA	A	84	27.592	9.595	2.089	1.00	36.13	c
N	MET	A	85	29.116	8.196	-0.367	1.00	37.76	N
CA	MET	Α	85	29.111	7.287	-1.508	1.00	39.69	c
С	MET	Α	85	30.223	6.257	-1.367	1.00	41.00	tč
0	MET	Α	85	30.009	5.060	-1.568	1.00	41.42	0
CB	MET	Α	85	- 29.264	8.053	-2.820	1.00	40.12	
CG	MET	Α	85	28.061	8.945	-3.132	1.00		C
SD	MET	Α	85	26.538	8.001	-3.315	1.00	40.96	C
CE	MET	A	85	26.973	6.931	-4.683		41.36	S
N	GLN	A	86	31.410	6.738	-0.992	1.00	40.65	C
CA	GLN	A	86	32.553	5.840		1.00	42.08	N
С	GLN	Ā	86	32.252	4.822	-0.817	1.00	42.74	С
0	GLN	A	86	32.169	+	0.259	1.00	42.97	С
СВ	GLN	A	86	33.823	3.616	-0.027	1.00	43.31	0
CG	GLN	A			6.663	-0.577	1.00	43.27	С
CD	GLN		86	34.312	7.257	-1.888	1.00	44.50	C
OEI	GLN	A	86	35.480	8.188	-1.859	1.00	45.31	С
NE2		<u> </u>	86	35.978	8.671	-0.844	1.00	45.76	0
	GLN	Α	86	35.975	8.516	-3.067	1.00	45.96	N
N CA	ASP	Α	87	31.763	5.277	1.408	1.00	43.03	N
CA_	ASP	Α	87	31.337	4.384	2.470	1.00	44.15	С
<u> </u>	ASP	A	87	30.274	3.396	2.008	1.00	45.71	С
0	ASP	A	87	30.250	2.245	2.453	1.00	46.35	0
CB	ASP	A	87	30.802	5.186	3.661	1.00	43.42	c
CG	ASP	I.A	87	30.677	4.330	4.904	1.00	43.34	c
ODI	ASP	A	87	31.598	3.517	5.157	1.00	44.06	0
OD2	ASP	A	87	29.677	4.458	5.632	1.00	42.70	
N	SER	Α	88	29.370	3.825	1.135	1.00	47.04	N
CA	SER	Α	88	28.293	2.977	0.654	1.00	48.12	-
С	SER	Α	88	28.814	1.828	-0.197	1.00		C
0	SER	A	88	28.259	0.731	-0.169	1.00	49.19	C
CB	SER	A	88	27.281	3.803	-0.145		48.51	0
0G	SER	A	88	27.686	3.947		1.00	47.96	С
N	GLY	A	89			-1.492	1.00	47.71	0
CA	GLY	A	89	29.809	2.112	-1.033	1.00	50.61	N
C .	GLY			30.381	1.147	-1.945	1.00	52.39	С
0		A	89	29.514	0.870	-3.164	1.00	54.05	C
N	GLY	A	89	29.776	-0.068	-3.925	1.00	54.48	0
	LEU	A	90	28.453	1.639	-3.374	1.00	55.16	N
CA	LEU	Α	90	27.568	1.451	-4.506	1.00	56.38	С
<u>c</u>	LEU	Α	90	28.365	1.603	-5.807	1.00	57.19	С
0	LEU	A	90	29.179	2.512	-5.927	1.00	56.97	ō
CB	LEU	Α	90	26.450	2.479	-4.548	1.00	56.95	č
CG	LEU	A	90	25.064	2.193	-4.018	1.00	57.07	-
CDI	LEU	A	90	24.119	3.328	-4.430	1.00	56.91	c
CD2	LEU	Α	90	24.503	0.865	4.490	1.00	57.14	-
N	GLU	A	91	28.000	0.803	-6.797	1.00	· 58.89	
CA	GLU	A	91	28.532	1.023	-8.143	1.00		N
c	GLU	A	91	27.379	1.498	-9.027		60.44	c
5	GLU	A	91	26.318	0.874		1.00	60.53	<u>c</u>
	 .			20.010	J.074	-9.032	1.00	59.77	0

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CB	GLU	A	91	29.199	-0.223	-8.703	1.00	16156	T -	
CG	GLU	A	91	30.719	-0.181	-3.594	1.00	61.56	<u> </u>	
CD	GLU	A	91	31.404	-1.257			63.08	_ c	
OEI	GLU	A	91	· - · - · · · · · · · - · - · - · - · · - · · - ·		-9.414	1.00	64.10	C	_
OE2	GLU			31.231	-1.261	-10.655	1.00	64.05		
N		A	91	32.116	-2.091	-8.804	1.00	64.55	0	
	ILE	_ A	92	27.572	2.650	-9.658	1.00	61.08	N	
CA	ILE	A	92	26.507	3.184	-10.517	1.00	61.83	C	_
<u></u>	ILE	A	92	26.734	2.696	-11.938	1.00	62.69	c	
0	ILE	A	92	27.835	2.776	-12.482	1.00	63.13	16	_
CB	ILE	A	92	26.414	4.708	-10.424	1.00			
CGI	ILE	A	92	25.864	5.103			61.36	<u> c</u>	
CG2	ILE	A	92			-9.040	1.00	60.82	C	
CDI	ILE	A		25.538	5.304	-11.508	1.00	61.19	C	
N			92	26.892	5.752	-8.144	1.00	60.43		
	THR	A	93	25.717	2.047	-12.489	1.00	63.87	N	_
CA	THR	A	93	25.781	1.551	-13.860	1.00	65.29	С	_
<u>C</u>	THR	A	93	24.654	2.175	-14.672	1.00	66.26	Č	
0	THR	A	93	23.741	2.769	-14.099	1.00	66.46	10	_
CB	THR	A	93	25.634	0.023	-13.923	1.00	65.14		
OGI	THR	Α	93	24.503	-0.374	-13.130			C	_
CG2	THR	A	93				1.00	65.30	10	
N	GLU			26.882	-0.667	-13.413	1.00	65.19	С	
		A	94	24.678	2.020	-15.992	1.00	67.78	N	
CA.	GLU	A	94	23.619	2.572	-16.839	1.00	68.67	C	
<u>C</u>	GLU	A	94	22.280	1.938	-16.473	1.00	68.05	C	ᅥ
0	GLU	A	94	21.220	2.554	-16.551	1.00	67.97	0	\dashv
СВ	GLU	Α	94	23.929	2.362	-18.315	1.00	70.29	c	\dashv
CG	GLU	Α	94	22.964	3.053	-19.266	1.00	72.04		\dashv
CD	GLU	A	94	23.583	4.206	-20.025			C	-1
OEI	GLU	A	94	22.821			1.00	73.06	С	_
OE2	GLU	A	94		5.037	-20.570	1.00	73.57	0	┙
N-				24.827	4.302	-20.098	1.00	73.83	10	
	GLU	A	95	22.325	0.700	-15.999	1.00	67.33	N	٦
CA	GLU	Α	95	21.188	-0.051	-15.531	1.00	66.97	С	┑
<u> </u>	GLU	A	95	20.796	0.344	-14.109	1.00	64.95	С	ヿ
0	GLU	A	95	19.856	-0.224	-13.548	1.00	65.38	Ō	⊣
CB	GLU	Α	95	21.506	-1.555	-15.548	1.00	69.25	Č	ᅥ
CG	GLU	Α	95	21.836	-2.102	-16.930	1.00	71.96	c	\dashv
CD	GLU	A	95	22.091	-3.597	-16.938				4
OEI	GLU	Ā	95	22.000	-4.233		1.00	73.58	C	┙
OE2	GLU	TÂ				-15.861	1.00	74.24	0	_
N			95	22.396	-4.174	-18.011	1.00	74.44	0	╝
	ASN	A	96	21.515	1.286	-13.522	1.00	61.76	N	_]
CA	ASN	A	96	21.332	1.731	-12.162	1.00	58.00	С	٦
c	ASN	A	96	20.938	3.195	-12.036	1.00	55.15	С	╛
0	ASN	Α	96	20.028	3.537	-11.278	1.00	54.98	ō	┨
CB	ASN	Α	96	22.673	1.537	-11.409	1.00	57.96	C	┥
CG	ASN	A	96	22.424	1.041	-10.004	1.00	58.40	č	\dashv
ODI	ASN	A	96	21.416	0.373	-9.766			+	4
ND2	ASN	A	96	23.319			1.00	59.02	0	4
N	ALA	A			1.367	-9.087	1.00	58.61	N	_
CA		•	97	21.635	4.072	-12.739	1.00	51.18	N	J
	ALA	A	97	21.488	5.508	-12.680	1.00	47.79	С	J
<u>c</u>	ALA	A	97	20.095	6.010	-12.346	1.00	45.31	С	7
0	ALA	Α	97	19.902	6.772	-11.399	1.00	45.01	O	٦
CB	ALA	Α	97_	21.961	6.128	-13.996	1.00	47.88	Ċ	7
N	THR	A	98	19.100	5.621	-13.091	1.00	42.91	N	\dashv
CA	THR	A	98	17.699	5.931	-13.000	1.00			4
С	THR	A	98	17.037	5.703			40.62	C	4
0	THR					-11.661	1.00	39.36	C	1
СВ		A	98	16.042	6.378	-11.339	1.00	38.34	0	1
	THR	Α	98	17.005	5.048	-14.090	1.00	40.57	С	1
OG1	THR	Α	98	17.234	5.712	-15.349	1.00	41.06	0	7
CG2	THR	Α	98	15.543	4.807	-13.860	1.00	39.73	C	1
N	ARG	Α	99	17.519	4.763	-10.855	1.00	38.10	N	1
CA	ARG	A	99	16.920	4.456	-9.569	1.00	37.30	C	4
С	ARG	A	99	17.598	5.091					4
0	ARG	A	99			-8.368	1.00	36.58	C	1
				17.145	4.876	-7.234	1.00	36.97	0	1
CB	ARG	A	99	16.875	2.928	-9.394	1.00	37.24	С	
CG	ARG	Α	99	16.088	2.202	-10.470	1.00	37.24	С	1
CD	ARG	Α	99	14.607	2.503	-10.421	1.00	37.11	C	1
NE	ARG	Α	99	13.916	1.972	-9.256	1.00	37.06	N	1
CZ	ARG	A	99	12.751	2.448	-8.809	1.00	37.39	C	1
NHI	ARG	A	99	12.158	3.460	-9.430				1
	·-· -				J.=UU	-7. 7 .7U	1.00	36.88	N	1

SNI					00.	110	•			
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C	CA	ILE	A	100	19.406	6.480				
Description Description	С	ILE	A							
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CG2	СВ	ILE	A							
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CB					18.332	13.668	-3.284	1.00	29.70	С
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O ALA A 103 18.559 15.134 0.952 1.00 23.10 O CB ALA A 103 16.497 13.910 -0.595 1.00 23.51 C N ILE A 104 19.099 16.587 -0.671 1.00 22.38 C CA ILE A 104 19.908 17.401 0.135 1.00 22.38 C C ILE A 104 19.992 19.399 -0.839 1.00 22.23 C O ILE A 104 12.327 17.415 -0.478 1.00 21.90 C CGI ILE A 104 22.377 17.755 -0.478 1.00 21.90 C CGI ILE A 104 22.2977 15.754 -1.509 1.00 21.95 C CDI ILE A 104 22.977 15.754 -1.509<		ALA	Α	103	18.363					
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N GLY A 107 19.547 25.475 5.095 1.00 19.19 N CA GLY A 107 18.639 26.453 5.655 1.00 18.05 C C GLY A 107 18.625 27.702 4.781 1.00 18.77 C O GLY A 107 17.531 28.123 4.418 1.00 18.68 O N ILE A 108 19.781 28.295 4.496 1.00 19.98 N CA ILE A 108 20.795 29.409 2.502 1.00 22.33 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.93 30.744 4.526 1.00 22.50 O CB ILE A 108 19.999 32.067 3.812 1.00 22.56 C CG1 ILE A 108 19.999 32.067 3.812 1.00 22.56 C CG2 ILE A 108 21.790 30.677 4.834 1.00 22.23 C CD1 ILE A 108 21.790 30.677 4.834 1.00 22.23 C CD1 ILE A 109 21.596 28.356 2.417 1.00 23.23 N CA GLY A 109 21.596 28.356 2.417 1.00 23.23 N CA GLY A 109 23.618 29.206 1.299 1.00 23.95 C O GLY A 109 23.618 29.206 1.299 1.00 23.95 C O GLY A 109 23.618 29.206 1.299 1.00 23.95 C O GLY A 110 23.968 29.728 0.119 1.00 22.53 N CA GLY A 110 25.186 30.444 -0.086 1.00 22.53 N CA GLY A 110 25.186 30.444 -0.086 1.00 21.34 C C GLY A 110 25.186 30.444 -0.086 1.00 21.34 C C GLY A 110 25.295 31.872 0.353 1.00 21.34 C C GLY A 110 25.285 33.486 2.183 1.00 21.33 N CLEU A 111 25.141 32.142 1.646 1.00 21.33 N CLEU A 111 25.141 32.142 1.646 1.00 21.33 N CLEU A 111 25.141 32.142 1.646 1.00 21.33 N CLEU A 111 26.612 34.144 1.839 1.00 19.97 C C LEU A 111 26.612 34.144 1.839 1.00 19.97 C C LEU A 111 25.107 33.458 3.709 1.00 21.38 C						24.488	2.526	1.00	17.16	С
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C GLY A 107 18.625 27.702 4.781 1.00 18.77 C O GLY A 107 17.531 28.123 4.418 1.00 18.68 O N ILE A 108 19.781 28.295 4.496 1.00 19.98 N CA ILE A 108 19.854 29.517 3.697 1.00 21.92 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.837 30.295 1.645 1.00 22.50 O CB ILE A 108 20.293 30.744 4.526 1.00 22.68 C CGI ILE A 108 19.999 32.067 3.812 1.00 22.26 C CG2 ILE A 108 18.740 32.773 4.209			A	107	19.547	25.475	5.095	1.00	19.19	N
C GLY A 107 18.625 27.702 4.781 1.00 18.77 C O GLY A 107 17.531 28.123 4.418 1.00 18.68 O N ILE A 108 19.781 28.295 4.496 1.00 19.98 N CA ILE A 108 19.854 29.517 3.697 1.00 21.92 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.837 30.295 1.645 1.00 22.50 O CB ILE A 108 20.293 30.744 4.526 1.00 22.68 C CGI ILE A 108 19.999 32.067 3.812 1.00 22.256 C CG2 ILE A 108 18.790 30.677 4.834		GLY	A	107	18.639	26.453	5.655	1.00	18.05	
O GLY A 107 17.531 28.123 4.418 1.00 18.68 O N ILE A 108 19.781 28.295 4.496 1.00 19.98 N CA ILE A 108 19.854 29.517 3.697 1.00 21.92 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.837 30.295 1.645 1.00 22.50 O CB ILE A 108 20.293 30.744 4.526 1.00 22.68 C CG1 ILE A 108 19.999 32.067 3.812 1.00 22.56 C CG2 ILE A 108 21.790 30.677 4.834 1.00 22.23 C CD1 ILE A 108 18.740 32.773 4.209	<u>C</u>	GLY	Α	107	18.625	27.702	4.781	1.00		
N ILE A 108 19.781 28.295 4.496 1.00 19.98 N CA ILE A 108 19.854 29.517 3.697 1.00 21.92 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.8337 30.295 1.645 1.00 22.50 O CB ILE A 108 20.293 30.744 4.526 1.00 22.56 C CGI ILE A 108 19.999 32.067 3.812 1.00 22.56 C CG2 ILE A 108 21.790 30.677 4.834 1.00 22.23 C CD1 ILE A 108 18.740 32.773 4.209 1.00 22.23 C CD1 ILE A 109 21.596 28.356 2.417	0	GLY	A	107	17.531	28.123	4.418			+
CA ILE A 108 19.854 29.517 3.697 1.00 21.92 C C ILE A 108 20.795 29.409 2.502 1.00 22.33 C O ILE A 108 20.837 30.295 1.645 1.00 22.50 O CB ILE A 108 20.293 30.744 4.526 1.00 22.68 C CGI ILE A 108 19.999 32.067 3.812 1.00 22.56 C CG2 ILE A 108 21.790 30.677 4.834 1.00 22.23 C CDI ILE A 108 18.740 32.773 4.209 1.00 22.23 C CDI ILE A 109 21.596 28.356 2.417 1.00 23.23 N CA GLY A 109 22.490 28.191 1.282	N	ILE	A	108	19.781					+
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N LEU A 111 25.141 32.142 1.646 1.00 21.33 N CA LEU A 111 25.285 33.486 2.183 1.00 21.06 C C LEU A 111 26.612 34.144 1.839 1.00 19.97 C D LEU A 111 26.655 35.343 1.573 1.00 19.87 O CB LEU A 111 25.107 33.458 3.709 1.00 21.38 C CG LEU A 111 23.849 34.136 4.252 1.00 21.04 C			Α .	110	25.779	32.717				
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CD1 1511 A 111 CO C/C				•						
21.70 3.702 3.738 1.00 21.27 C						_				
			···	 L	23.700	J4.302	3.738	1.00	21.21	<u> </u>

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CD2	LEU	A	111	23.605	35.470	3.584	1.00	20.64	С
N	GLY	A	112	27.706	33.399	1.864	1.00	19.90	N
CA	GLY	A	112	29.025	33.909	1.563	1.00	19.57	- ;
<u> </u>	GLY	A	112	29.093	34.582	0.202	1.00	19.83	c
0 N	GLY	A	112	29.436	35.763	0.110	1.00	19.16	o
CA	LEU	<u> </u>	113	28.660	33.865	-0.835	1.00	20.37	N
C	LEU	A	113	28.717	34.373	-2.195	1.00	21.45	С
0	LEU	A	113	27.667	35.432	-2.470	1.00	22.87	c
СВ	LEU	_ <u> </u>	113	27.887	36.287	-3.349	1.00	24.10	0
CG	LEU	A	113	28.668	33.257	-3.233	1.00	21.15	С
CDI	LEU	<u> </u>	113	29.966	32.437	-3.379	1.00	21.11	С
CD2	LEU	- A -	113	29.850	31.447	-4.527	1.00	20.06	С
N	ILEU ILE	- A -	113	31.172	33.342	-3.549	1.00	20.34	С
CA	ILE	<u> </u>	114	26.567	35.437	-1.726	1.00	23.17	N
C	ILE	A	114	25.566	36.481	-1.922	1.00	23.67	C
0	ILE	A	114	26.153	37.807	-1.442	1.00	24.59	С
CB	ILE	A	114	26.093	38.806	-2.156	1.00	24.19	0
CGI	ILE	A	114	24.246	36.209	-1.205	1.00	23.59	C
CG2	ILE	TA A	114	23.614	34.926	-1.749	1.00	23.20	С
CDI	ILE	TÂ -	114	23.293	37.390	-1.373	1.00	23.96	С
N N	GLU	Â	114	22.368	34.488	-1.014	1.00	22.82	С
CA	GLU	Ā	115	26.791	37.773	-0.274	1.00	26.24	·N
C	GLU	Â	115	27.382 28.485	38.995	0.283	1.00	28.37	С
0	GLU	A	115	28.597	39.536	-0.625	1.00	29.01	C
СВ	GLU	A	115	27.927	40.732	-0.855	1.00	28.40	0
CG	GLU	A	115	26.918	38.748	1.682	1.00	28.58	С
CD	GLU	A	115	27.594	38.301	2.723	1.00	29.16	С
OEI	GLU	A	115	27.136	37.229	4.056	1.00	30.83	C
OE2	GLU	A	115	28.643	38.695	4.861	1.00	31.28	0
N	GLU	A	116	29.313	38.632	-1.139	1.00	32.63	0
CA	GLU	A	116	30.396	38.976	-2.041	1.00	30.70	N .
С	GLU	Α	116	29.865	39.618	-3.315	1.00	31.25	<u> c</u>
0	GLU	A	116	30.328	40.689	-3.701	1.00	29.86	LC
СВ	GLU	Α	116	31.211	37.729	-2.396	1.00	29.96	
CG	GLU	Α	116	32.443	38.037	-3.238	1.00	33.77	C
CD	GLU	Α	116	33.380	36.848	-3.326	1.00	39.87	c
OE1	GLU	Α	116	33.652	36.249	-2.253	1.00	41.44	0
OE2	GLU	Α	116	33.825	36.519	-4.447	1.00	40.97	6
N	ASN	A	117	28.893	38.962	-3.954	1.00	27.58	N
CA	ASN	Α	117	28.342	39.520	-5.195	1.00	25.34	c
<u>c</u>	ASN	A	117	27.694	40.865	-4.966	1.00	25.27	l c
0	ASN	Α	117	28.025	41.830	-5.663	1.00	25.06	ō
CB	ASN	A	117	27.401	38.518	-5.849	1.00	23.78	Č
CG	ASN	A	117	28.223	37.458	-6.584	1.00	23.22	c
ODI	ASN	A	117	28.593	37.682	-7.736	1.00	23.18	0
ND2	ASN	A	117	28.516	36.354	-5.929	1.00	22.14	N
N CA	HIS	A	118	26.877	40.991	-3.922	1.00	25.45	N
CA	HIS	Α	1.18	26.234	42.236	-3.569	1.00	25.44	С
<u>c</u>	HIS	A	118	27.235	43.361	-3.319	1.00	26.62	С
CB	HIS	A	118	27.016	44.496	-3.749	1.00	26.46	0
CG	HIS	A	118	25.330	42.060	-2.335	1.00	24.14	С
NDI	HIS	A	118	24.462	43.273	-2.164	1.00	23.03	С
CD2	HIS	I A	118	24.589	44.116	-1.095	1.00	23.14	N
CEI	HIS	A	118	23.480	43.774	-2.955	1.00	22.09	C -
NE2	HIS HIS	A	118	23.700	45.101	-1.220	1.00	22.98	C.
NEZ N	THR	A .	118	23.026	44.916	-2.342	1.00	22.18	N
CA	THR	A	119	28.347	43.054	-2.668	1.00	27.91	N
2		A	119	29.438	43.991	-2.456	1.00	29.63	С
5	THR	A	119	29.983	44.489	-3.790	1.00	30.90	С
B	THR	A	119	29.968	45.696	-4.060	1.00	32.10	0
GI G	THR	A	119	30.574	43.315	-1.665	1.00	29.98	C
G2	THR	A	119	30.019	42.865	-0.421	1.00	30.86	0
102	THR	Α	119	31.718	44.270	-1.392	1.00	29.85	С
A	SER	A	120	30.316	43.565	-4.687	1.00	31.36	N
A	SER	A	120	30.777	43.912	-6.021	1.00	33.00	С
- 	SER SER	A	120	29.769	44.800	-6.743	1.00	35.01	C
	JEK	Α	120	30.150	45.758	-7.410	1.00	35.40	0

CB SER A 120 31,031 42,671 6.6375 1.00 32,36 C										
OC SER A 120 32.030 41.846 -6.313 1.00 31.75 O N LEU A 121 23.484 44.470 -6.627 1.00 36.566 N CA LEU A 121 27.455 45.562 .72.95 1.00 38.56 C C LEU A 121 27.455 45.562 .72.95 1.00 40.91 C O LEU A 121 27.089 47.641 .73.48 1.00 40.35 O CE LEU A 121 27.089 47.641 .73.48 1.00 40.35 O CE LEU A 121 27.089 47.641 .73.48 1.00 40.35 O CE LEU A 121 24.865 45.415 .72.04 1.00 36.97 C CD1 LEU A 121 24.865 45.415 .74.42 1.00 36.97 C CD2 LEU A 121 24.865 45.415 .74.42 1.00 36.97 C CD3 LEU A 121 24.865 45.415 .74.42 1.00 36.97 C CD3 LEU A 121 23.708 44.901 .66.11 1.00 36.72 C N MET A 122 27.996 48.051 .47.07 1.00 46.33 C CA MET A 122 27.996 48.051 .47.07 1.00 46.33 C C MET A 122 28.549 50.140 .52.20 1.00 47.31 O CG MET A 122 28.549 50.140 .52.20 1.00 47.31 O CG MET A 122 27.496 48.466 .25.32 1.00 36.07 C CG MET A 122 25.196 48.466 .25.32 1.00 36.31 C CG MET A 122 25.196 48.466 .25.32 1.00 36.31 C CE MET A 122 25.196 48.466 .25.32 1.00 36.31 C CE MET A 122 25.196 48.466 .25.32 1.00 36.31 C CE MET A 122 35.195 30.064 .25.92 1.00 36.31 C CG ASN A 123 31.412 48.999 .53.37 1.00 46.57 C CG ASN A 123 31.412 48.999 .53.37 1.00 45.56 C CG ASN A 123 31.412 48.999 .53.37 1.00 46.55 N CG ASN A 123 31.412 48.999 .53.37 1.00 46.55 C CG ASN A 123 31.412 48.999 .53.37 1.00 46.55 C CG ASN A 123 31.412 48.999 .53.37 1.00 46.55 C CG ASN A 123 31.412 48.999 .53.37 1.00 46.55 C CG ASN A 123 31.412 48.999 .53.37 1.00 48.55 O CG ASN A 123 31.412 48.999	CB	SER	A	120	31.031	42.671	-6.875	1.00	32.36	С
N	LOG	SER	A	120	32.030	41.846	-6.313	1.00	31.75	
CA LEU A 121 27.455 43.502 73.85 1.00 38.56 C C LEU A 121 27.968 436.561 6.674 1.00 4.0.9 C C LEU A 121 27.089 47.641 73.48 1.00 4.0.35 O C C LEU A 121 27.089 47.641 73.48 1.00 4.0.35 O C C C LEU A 121 28.65 45.515 77.242 1.00 37.33 C C C LEU A 121 28.65 45.415 77.442 1.00 36.77 C C C LEU A 121 28.65 45.415 77.442 1.00 36.77 C C C LEU A 121 27.078 44.901 6.611 1.00 36.72 C C C LEU A 121 27.078 44.901 6.611 1.00 36.72 C C C LEU A 122 27.576 46.503 6.507 1.00 36.35 C C C C C C C C C	N	LEU	A	121		14 170				
C LEU A 121 27:568 36:531 -6:673 1.00 40:19 C CB LEU A 121 27:988 47:641 -73:48 1.00 40:35 O CG LEU A 121 28:655 45:452 -7:402 1.00 36:97 C CD1 LEU A 121 28:655 45:451 -7:442 1.100 36:72 C CD1 LEU A 121 28:558 45:541 -5:471 1.00 36:72 C CD1 LEU A 121 23:508 45:401 -6:611 1.00 36:72 C N MET A 122 27:496 46:501 -3:367 1.00 46:33 C CA MET A 122 28:549 30:40 -5:220 1.00 47:31 O CB MET A 122 28:543 48:051 -4:7	CA									
Description Color Leu A										o
CG						46.653	-6.674	1.00	40.19	C
CC	-	LEU	_ A	121	27.089	47.641	-7.348	1.00	40.35	0
CD1 LEU A 121 24.865 35.415 77.442 1.00 36.97 C CD1 LEU A 121 24.855 45.66 5.921 1.00 36.28 C CD2 LEU A 121 23.708 44.901 -6.611 1.00 36.28 C CD2 LEU A 122 27.576 46.530 -5.507 1.00 46.30 C C CD2 LEU A 122 27.576 46.530 -5.507 1.00 46.30 C C CD2	CB	LEU	Α	121	26.106	44.542	-7.201	1.00		
CD2	CG	LEI!	A		-+	 -				
CD2										
N	$\overline{}$						-8.921	1.00	36.28	l C
N	CD2	LEU	A	121	23.708	44.901	-6.611	1.00	36.72	C
CA MET A 122 27.496 48.051 47.077 1.00 46.533 C C MET A 122 28.549 30.140 5.520 1.00 46.71 C C MET A 122 28.549 30.140 5.520 1.00 46.71 C C C MET A 122 27.451 47.875 3.198 1.00 48.07 C C C MET A 122 26.530 48.506 -2.552 1.00 59.31 C C C MET A 122 26.530 48.506 -2.552 1.00 53.75 S C C MET A 122 26.530 48.506 -2.552 1.00 53.75 S C C MET A 122 26.5330 48.500 -0.728 1.00 53.75 S C MET A 122 26.5330 48.500 -0.728 1.00 53.18 C C MET A 122 26.5330 48.500 -0.728 1.00 46.55 N C C ASN A 123 29.831 48.291 5.5337 1.00 46.55 N C C ASN A 123 31.042 48.999 5.682 1.00 46.56 C C ASN A 123 31.042 48.999 5.682 1.00 46.56 C C ASN A 123 31.202 49.945 7.489 1.00 45.500 C C ASN A 123 31.202 49.945 7.489 1.00 46.50 C C C ASN A 123 32.202 49.945 7.489 1.00 47.24 C C C C ASN A 123 32.202 48.822 3.415 1.00 48.66 C C C ASN A 123 32.201 48.822 3.415 1.00 48.66 C C C ASN A 123 32.201 48.822 3.415 1.00 48.66 C C C ASN A 123 32.201 48.822 3.415 1.00 48.66 C C C ASN A 123 32.201 48.822 3.415 1.00 48.53 O C C C C ASN A 123 32.201 48.822 3.415 1.00 48.53 O C C C C C ASN A 123 31.799 50.105 3.213 1.00 48.57 N C C C C C C C C C	LN .	MET	l A	122	27.576	46.750	-5.367	1.00		
C MET A 122 28.683 48.923 -5.108 1.00 46.71 C C MET A 122 28.549 30.140 -5.220 1.00 47.31 O CB MET A 122 22.7431 47.757 -3.198 1.00 48.07 C CG MET A 122 26.196 48.466 -2.532 1.00 53.15 S CE MET A 122 26.105 50.064 -0.250 1.00 53.18 C CE MET A 122 26.105 50.064 -0.250 1.00 46.55 C CA ASN A 123 31.042 48.999 -5.682 1.00 46.56 C CA ASN A 123 32.202 49.845 -7.489 1.00 45.560 C CB ASN A 123 32.202 49.845 -7.48	CA	MET	A	122						
O MET A 122 28.549 30.140 -5.220 1.00 49.31 0 CB MET A 122 27.431 47.875 3.198 1.00 48.807 C CG MET A 122 26.196 48.466 2.532 1.00 59.31 C SD MET A 122 26.330 48.350 9.728 1.00 53.75 S CE MET A 122 26.105 50.064 9.250 1.00 53.18 C N ASN A 123 39.31 48.291 5.337 1.00 46.45 N CA ASN A 123 31.012 48.999 5.562 1.00 46.36 C C ASN A 123 32.212 48.949 7.7142 1.00 46.36 C C ASN A 123 32.212 48.948 4.869										
CR									46.71	С
CG MET A 122 26.196 48.466 -2.532 1.00 45.07 C		MET	A	122	28.549	50.140	-5.220	1.00	47.31	0
CG	CB	MET	l A	122	27.431	47.875	-3.198	1.00	48.07	C
SP	CG	MET	A	122	26 196	48 466				
CE										
N								1.00	53.75	
N ASN A 123 29.831 48.299 5.537 1.00 46.45 N C ASN A 123 31.042 48.899 -7.5682 1.00 45.60 C O ASN A 123 32.302 49.845 -7.489 1.00 45.60 C CB ASN A 123 32.202 49.845 -7.489 1.00 46.39 O CB ASN A 123 32.201 48.832 -3.415 1.00 48.06 C CG ASN A 123 32.091 48.809 -2.502 1.00 48.53 O ND2 ASN A 123 31.799 50.105 -3.213 1.00 48.27 N CB ASN A 124 30.76 48.199 11.00 44.54 N CC GLY A 124 39.999 48.188 10.386 1.00 <td></td> <td></td> <td></td> <td>122</td> <td></td> <td>50.064</td> <td>-0.250</td> <td>1.00</td> <td>53.18</td> <td>C</td>				122		50.064	-0.250	1.00	53.18	C
CA ASN A 123 31.042 48.999 -5.682 1.00 46.36 C C ASN A 123 33.1412 49.047 -7.142 1.00 45.60 C CB ASN A 123 33.202 49.845 -7.489 1.00 49.99 0 CB ASN A 123 33.212 48.384 -4.869 1.00 48.53 0 CG ASN A 123 33.235 48.099 -2.502 1.00 48.53 0 DDI ASN A 123 33.235 48.099 -2.502 1.00 48.53 0 NDZ ASN A 123 33.1799 50.105 -3.213 1.00 48.27 N CA GLY A 124 30.766 48.139 -11.606 1.00 43.53 0 CA GLY A 124 30.226 48.129 -1	N	ASN	L A	123	29.831	48.291	-5.337	1.00	46.45	
C ASN A 123 31,412 49,047 -7,142 1.00 45,50 C C ASN A 123 32,302 49,845 -7,489 1.00 46,39 O CB ASN A 123 32,201 48,8384 -4,869 1.00 48,24 C CG ASN A 123 32,901 48,8322 -3,415 1.00 48,53 O NDD2 ASN A 123 31,799 50,105 -3,213 1.00 48,53 O NDD2 ASN A 123 31,799 50,105 -3,213 1.00 44,54 N N GLY A 124 30,776 48,295 -8,026 1.00 44,54 N CG GLY A 124 29,989 48,188 10,386 1.00 42,239 C C GLY A 125 28,756 48,159 -11	CA	ASN	T A	123	31.042	48 999				
O ASN A 123 32.302 49.845 .7.889 11.00 45.39 O C CB ASN A 123 32.212 48.884 4.869 1.00 47.24 C C G ASN A 123 32.212 48.884 4.869 1.00 47.24 C C C ASN A 123 32.091 48.384 4.869 1.00 47.24 C C C ASN A 123 32.091 48.384 4.869 1.00 47.24 C C C D D ASN A 123 32.091 48.092 12.502 1.00 48.53 O N D ASN A 123 32.236 48.009 12.502 1.00 48.53 O N D ASN A 123 32.236 48.009 12.502 1.00 48.53 O N D ASN A 123 31.799 50.105 3.3213 1.00 48.27 N N GLY A 124 30.776 48.295 8.026 11.00 44.54 N C A CLY A 124 31.149 48.300 9.427 1.00 42.78 C C G LY A 124 31.149 48.300 9.427 1.00 42.78 C C G LY A 124 30.226 48.129 11.606 1.00 42.79 C C G LY A 124 30.226 48.129 11.606 1.00 43.01 O A M G A M A 125 28.756 48.163 9.898 1.00 41.26 N C A C C G LY A 125 27.592 48.015 1.0773 1.00 40.34 C C G LY A 125 27.581 46.551 1.11.133 1.00 40.27 C C G LY A 125 27.581 46.551 1.11.133 1.00 40.27 C C G LY A 125 27.581 46.551 1.11.133 1.00 40.27 C C G LY A 125 27.581 46.551 1.11.133 1.00 40.27 C C G LY A 125 27.381 46.551 1.11.130 1.00 40.27 C C G LY A 125 27.381 46.551 1.11.133 1.00 40.27 C C G LY A 125 27.381 46.551 1.11.130 1.00 40.27 C C G LY A 125 27.381 46.551 1.11.130 1.00 40.27 C C G PRO A 126 26.332 46.262 1.11.900 1.00 41.29 N. C C PRO A 126 26.332 44.262 1.11.900 1.00 41.29 N. C C PRO A 126 26.597 44.186 1.3211 1.00 42.21 C C C PRO A 126 26.597 44.186 1.3211 1.00 42.21 C C C PRO A 126 26.597 44.186 1.3211 1.00 42.21 C C C PRO A 126 26.597 44.186 1.3211 1.00 42.68 O C C PRO A 126 24.577 46.524 1.3423 1.00 41.35 C C C PRO A 126 25.388 47.272 1.2341 1.00 41.15 C C C PRO A 126 24.577 46.524 1.3423 1.00 44.18 C C C PRO A 126 24.577 46.524 1.3423 1.00 44.18 C C C PRO A 126 24.577 46.524 1.3423 1.00 44.18 C C C PRO A 126 24.577 46.524 1.3423 1.00 44.18 C C C PRO A 126 24.577 46.524 1.3423 1.00 44.18 C C C PRO A 126 24.577 44.186 1.00 4.13.43 N N C C ARG A 127 29.398 45.033 1.81.86 1.00 40.40 40.90 O C C C PRO A 126 24.577 29.394 44.186 1.18.18.91 1.00 40.40 4.11 C C C PRO A 128 30.30 40.40 40.74 1.14.616 1.00 44.11 C C C LYS A 128 30.300 44.73 4.13.30 1					_					
CB ASN A 123 32.212 48.884 -4.869 1.00 47.24 C CG ASN A 123 32.091 48.822 -3.415 1.00 48.00 C ODDI ASN A 123 32.236 48.009 -2.502 1.00 48.53 O ND2 ASN A 123 31.799 50.105 -3.213 1.00 48.27 N ND2 ASN A 124 30.776 48.295 -8.026 1.00 44.54 N CA GLY A 124 30.776 48.295 -8.026 1.00 44.27 C CG GLY A 124 39.989 48.188 1-16.06 1.00 42.78 C CG GLY A 125 28.756 48.163 -9.898 1.00 41.26 N CG GLY A 125 27.381 46.551		-								
CG ASN A 123 32.091 48.822 -3.415 1.00 48.66 C ODI ASN A 123 32.236 48.009 -2.502 1.00 48.53 O ND2 ASN A 123 31.799 50.105 -3.213 1.00 48.77 N N GLY A 124 30.776 48.955 -8.026 1.00 44.54 N CA GLY A 124 30.776 48.950 -9.626 1.00 44.54 N CA GLY A 124 30.226 48.129 -11.606 1.00 42.78 C C GLY A 124 30.226 48.129 -11.606 1.00 43.03 O N GLY A 125 27.592 48.015 -10.773 1.00 40.30 O CA GLY A 125 27.592 48.015 -10.						+		1.00	46.39	1.0
CG ASN A 123 32,091 48,822 -3,415 1.00 48,66 C ODDI ASN A 123 32,236 48,009 -2,502 1.00 48,53 O ND2 ASN A 123 31,799 50,105 -3,213 1.00 48,27 N CA GLY A 124 30,776 48,295 -8,026 1,00 42,78 C CA GLY A 124 29,989 48,188 -10,386 1,00 42,78 C C GLY A 124 29,989 48,183 -10,386 1,00 41,26 N C GLY A 124 29,989 48,183 -10,386 1,00 42,278 C C GLY A 125 28,759 48,163 -19,898 1,00 41,26 N C GLY A 125 27,592 48,015 -		ASN	I A	123.	32.212	48.384	-4.869	1.00	47.24	С
DDI	CG	ASN	A	123	32.091	48.822				
ND2	QD1									
N GLY A 124 30.776 48.295 8.026 1.00 44.54 N CA GLY A 124 31.149 48.300 9.427 1.00 42.78 C C GLY A 124 31.149 48.300 9.427 1.00 42.78 C C GLY A 124 30.226 48.129 -11.606 1.00 42.39 C O GLY A 125 28.756 48.163 9.898 1.00 41.26 N GLY A 125 28.756 48.163 9.898 1.00 41.26 N C GLY A 125 27.592 48.015 -10.773 1.00 40.34 C C GLY A 125 27.592 48.015 -10.773 1.00 40.34 C C GLY A 125 27.381 46.551 -11.133 1.00 40.27 C O GLY A 125 28.175 45.678 -10.790 1.00 38.53 O N PRO A 126 26.332 46.262 -11.900 1.00 41.29 N CA GLY A 125 27.592 48.02 1.10 0.0 1.00 41.29 N CA PRO A 126 26.371 44.928 -12.14 1.00 41.55 C C PRO A 126 26.5762 42.964 -13.385 1.00 42.21 C O PRO A 126 26.5762 42.964 -13.385 1.00 42.68 O CB PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CG PRO A 126 24.574 46.524 -13.423 1.00 41.13 C CD PRO A 126 24.574 46.524 -13.423 1.00 41.10 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.11 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.10 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.11 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.11 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.13 C CC PRO A 126 24.577 46.524 -13.423 1.00 41.10 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.10 C CD PRO A 126 24.577 46.524 -13.423 1.00 41.11 C C A RG A 127 29.967 43.347 -13.802 1.00 44.73 C C A RG A 127 29.967 43.347 -13.802 1.00 44.73 C C ARG A 127 29.967 43.347 -13.802 1.00 44.73 C C ARG A 127 29.968 45.033 -18.186 1.00 50.41 C C ARG A 127 29.988 45.033 -18.186 1.00 50.41 C C D RRO A 128 30.019 43.644 -12.504 1.00 43.33 C C C LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C D RRO A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.981 42.988 -11.100 40.00 41.77 O C LYS										
CA GLY A 124 31.149 48.300 -9.427 1.00 42.78 C C GLY A 124 29.989 48.188 -10.386 1.00 42.39 C O GLY A 124 30.226 48.129 -11.506 1.00 43.03 O N GLY A 125 28.756 48.163 -9.898 1.00 41.26 N CA GLY A 125 27.381 46.551 -10.773 1.00 40.34 C CG GLY A 125 27.381 46.561 -11.900 1.00 38.53 O O GLY A 125 28.175 45.678 -10.790 1.00 40.27 C C CBPRO A 126 26.927 44.186 -13.211 1.00 41.95 C C PRO A 126 26.527 44.186 -13.										
CA GLY A 124 31.149 48.300 .9.427 1.00 42.78 C C GLY A 124 39.999 48.188 -10.386 1.00 42.39 C O GLY A 124 30.226 48.129 -11.606 1.00 43.03 O N GLY A 125 28.756 48.163 -9.898 1.00 40.24 C CA GLY A 125 27.592 48.015 -10.773 1.00 40.24 C C GLY A 125 27.381 46.551 -11.133 1.00 40.27 C O GLY A 125 28.175 45.678 -10.790 1.00 31.29 N CA PRO A 126 26.5971 44.928 -12.314 1.00 41.55 C CA PRO A 126 26.527 44.186 -13.		GLY	I A	124	30.776	48.295	8.026	1.00	44.54	N
C GLY A 124 29.989 48.188 -10.386 1.00 42.39 C O GLY A 124 30.226 48.129 -11.606 1.00 42.39 C N GLY A 125 27.592 48.163 -9.898 1.00 41.26 N C GLY A 125 27.381 46.551 -11.133 1.00 40.34 C C GLY A 125 22.315 46.551 -11.133 1.00 40.27 C O GLY A 125 22.3781 46.551 -11.133 1.00 41.29 N C GRD A 126 26.322 44.228 -12.314 1.00 41.29 N CA PRO A 126 26.927 44.186 -13.211 1.00 42.68 O CB PRO A 126 24.577 44.186 -13.	CA	GLY	A	124	31.149	48.300	-9.427	1.00	42 78	
O GLY A 124 30.226 48.129 -11.606 1.00 43.03 O N GLY A 125 28.756 48.163 -9.898 1.00 41.26 N CA GLY A 125 27.581 48.015 -10.773 1.00 40.34 C C GLY A 125 27.381 46.551 -11.133 1.00 40.27 C O GLY A 125 28.175 45.678 -10.790 1.00 38.53 O N PRO A 126 26.372 44.186 -13.11 1.00 41.29 N CA PRO A 126 25.971 44.928 -12.314 1.00 42.68 O CB PRO A 126 25.927 44.186 -13.211 1.00 42.68 O CB PRO A 126 24.577 46.524 -13.	С	GLY	A	124	29 989					
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C PRO A 126 26,927 44,186 -13,211 1.00 42,21 C CB PRO A 126 26,762 42,964 -13,385 1.00 42,68 O CB PRO A 126 24,624 45,099 -13,027 1.00 41,13 C CG PRO A 126 24,577 46,524 -13,423 1.00 41,11 C CD PRO A 126 25,328 47,272 -12,341 1.00 41,11 C CD PRO A 126 25,328 47,272 -12,341 1.00 44,11 C CA ARG A 127 27,971 44,787 -13,754 1.00 44,173 C CA ARG A 127 28,910 44,074 -14,616 1.00 44,18 C C ARG A 127 30,718 42,517 <td< td=""><td>CA</td><td>PRO</td><td> A</td><td>126</td><td>25.971</td><td>44.928</td><td>-12.314</td><td>1.00</td><td>41.55</td><td>С</td></td<>	CA	PRO	A	126	25.971	44.928	-12.314	1.00	41.55	С
O PRO A 126 26.762 42.964 -13.385 1.00 42.68 O CB PRO A 126 24.624 45.099 -13.027 1.00 41.13 C CG PRO A 126 24.577 46.524 -13.423 1.00 41.11 C CD PRO A 126 25.328 47.272 -12.341 1.00 41.11 C N ARG A 127 27.971 44.787 -13.754 1.00 43.43 N CA ARG A 127 28.910 44.074 -14.616 1.00 44.73 C CA ARG A 127 29.9542 45.013 -13.802 1.00 44.18 C CB ARG A 127 29.542 45.013 -15.649 1.00 46.61 C CG ARG A 127 29.498 45.033 <th< td=""><td>С</td><td>PRO</td><td>A</td><td>126</td><td>26.927</td><td>44.186</td><td>-13.211</td><td>1.00</td><td></td><td></td></th<>	С	PRO	A	126	26.927	44.186	-13.211	1.00		
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N ARG A 127 27.971 44.787 -13.754 1.00 43.43 N CA ARG A 127 28.910 44.074 -14.616 1.00 44.73 C C ARG A 127 29.967 43.347 -13.802 1.00 44.18 C O ARG A 127 30.718 42.517 -14.326 1.00 44.09 O CB ARG A 127 39.542 45.013 -15.649 1.00 44.09 O CB ARG A 127 29.542 45.013 -15.649 1.00 44.09 O CB ARG A 127 29.542 45.013 -15.649 1.00 46.61 C CG ARG A 127 29.498 45.033 -18.186 1.00 50.41 C CD ARG A 127 29.498 45.033 -18.186 1.00 50.41 C NE ARG A 127 29.125 46.076 19.138 1.00 51.94 N CZ ARG A 127 29.848 47.140 19.462 1.00 52.60 C NH1 ARG A 127 29.345 47.369 1.8951 1.00 52.07 N NH2 ARG A 127 31.051 47.369 1.8951 1.00 52.07 N NH2 ARG A 128 30.019 43.644 12.504 1.00 53.61 N N LYS A 128 30.981 42.988 -11.625 1.00 43.09 N CA LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.360 41.793 10.914 1.00 40.89 C O LYS A 128 31.576 43.992 10.640 1.00 43.09 C CD LYS A 128 31.576 43.992 10.640 1.00 43.33 C CC LYS A 128 33.747 45.254 10.00 44.91 C CC LYS A 128 33.747 45.254 10.788 1.00 46.28 C CE LYS A 128 35.099 44.039 12.514 1.00 47.29 N N ILE A 129 29.092 41.484 11.181 1.00 38.34 N CA ILE A 129 28.951 39.043 -11.299 1.00 35.66 C CGI ILE A 129 28.755 38.876 12.994 1.00 35.66 C CGI ILE A 129 28.755 38.876 12.499 1.00 35.66 C CGI ILE A 129 26.935 40.318 -10.646 1.00 35.66 C	CD	PRO	A	126	25.328	47.272	-12.341	1.00	41.11	C
CA ARG A 127 28.910 44.074 -14.616 1.00 44.73 C C ARG A 127 29.967 43.347 -13.802 1.00 44.18 C O ARG A 127 30.718 42.517 -14.326 1.00 44.09 O CB ARG A 127 29.542 45.013 -15.649 1.00 46.61 C CG ARG A 127 28.687 45.176 -16.901 1.00 48.61 C CD ARG A 127 29.498 45.033 -18.186 1.00 50.41 C NE ARG A 127 29.125 46.076 -19.138 1.00 51.94 N CZ ARG A 127 29.335 48.0076 -19.138 1.00 52.60 C NH1 ARG A 127 31.051 47.369 <t< td=""><td>N</td><td>ARG</td><td>A</td><td>127</td><td>27.971</td><td>†</td><td></td><td></td><td></td><td></td></t<>	N	ARG	A	127	27.971	†				
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NH1 ARG A 127 31.051 47.369 -18.951 1.00 52.07 N NH2 ARG A 127 29.335 48.004 -20.340 1.00 53.61 N N LYS A 128 30.019 43.644 -12.504 1.00 43.09 N CA LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.360 41.793 -10.914 1.00 40.89 C O LYS A 128 31.045 41.117 -10.140 1.00 40.89 C CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 <t></t>	cz	ARG	Α-	127	29.848	47.140	-19.462	1.00		
NH2 ARG A 127 29.335 48.004 -20.340 1.00 53.61 N N LYS A 128 30.019 43.644 -12.504 1.00 43.09 N CA LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.360 41.793 -10.914 1.00 40.89 C O LYS A 128 31.045 41.117 -10.140 1.00 41.77 O CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 35.86 C CGGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C	NHI		A							
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CA LYS A 128 30.981 42.988 -11.625 1.00 42.41 C C LYS A 128 30.360 41.793 -10.914 1.00 40.89 C O LYS A 128 31.045 41.117 -10.140 1.00 41.77 O CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C CG ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.935 40.318 -10.646 1.00 35.86 C				+			 			
C LYS A 128 30.360 41.793 -10.914 1.00 40.89 C O LYS A 128 31.045 41.117 -10.140 1.00 41.77 O CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.951 39.043 -			<u> </u>	128	30.019	43.644	-12.504	1.00	43.09	LN
C LYS A 128 30.360 41.793 -10.914 1.00 40.89 C O LYS A 128 31.045 41.117 -10.140 1.00 41.77 O CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.951 39.043 -	CA	LYS		128	30.981	42.988	-11.625	1.00	42.41	l c
O LYS A 128 31.045 41.117 -10.140 1.00 41.77 O CB LYS A 128 31.576 43.992 -10.640 1.00 43.33 C CG LYS A 128 32.325 45.130 -11.322 1.00 44.91 C CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.951 39.043 -11.299 1.00 35.18 C C ILE A 129 28.755 38.876 -	c T	LYS	A							-
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CD LYS A 128 33.747 45.254 -10.788 1.00 46.28 C CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520	CG	LYS	Α	128	32.325	45.130	-11.322	1.00	44.91	С
CE LYS A 128 34.769 45.362 -11.907 1.00 46.86 C NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C	CD T	LYS	Α	128						
NZ LYS A 128 35.099 44.039 -12.514 1.00 47.29 N N ILE A 129 29.092 41.484 -11.181 1.00 38.34 N CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C										
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CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C			_A	128	35.099	44.039	-12.514	1.00	47.29	N
CA ILE A 129 28.474 40.313 -10.586 1.00 36.66 C C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C	N	ILE	A	129	29.092	41.484	-11.181	1.00	38.34	N
C ILE A 129 28.951 39.043 -11.299 1.00 35.18 C O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C	CA T	ILE								
O ILE A 129 28.755 38.876 -12.499 1.00 35.66 O CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C										
CB ILE A 129 26.935 40.318 -10.646 1.00 36.26 C CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C										
CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C						38.876	-12.499	1.00	35.66	0
CGI ILE A 129 26.323 41.520 -9.942 1.00 35.86 C	CB	ILE	Α	129	26.935	40.318	-10.646	1.00	36.26	C
	CG1	ILE								
1 127 20.370 37.010 -10.033 1.00 33.70 C				Ī						
			^	147	40.370	37.010	-10.033	1.00	33.70	

N					03/	110				
CA	CDI	ILE		129	24 803	41.547	-9.968	1.00	35.30	l C
C SER A 130 22 789 156.177 11.966 100 32.13 C CB SER A 130 27 200 36.94 -11.582 1.00 33.21 0 CB SER A 130 30.240 15.8189 -10.023 1.00 30.42 C CG SER A 130 30.398 34.519 -10.857 1.00 30.47 O CA PRO A 131 22.719 35.552 -13.092 1.00 30.655 N CC PRO A 131 22.7785 33.528 -13.017 1.00 29.91 C CB PRO A 131 20.7785 33.528 -13.037 1.00 28.41 C CB PRO A 131 30.499 35.607 -15.033 1.00 22.955 C CB PRO A 131 30.531 35.027				\rightarrow		38.080	-10.560	1.00	33.85	N
O							-11.140	1.00	31.89	С
CB							-11.986	1.00	32.13	C
SER A 130 30.389 34.519 10.287 10.00 30.47 C								1.00	33.21	0
N PRO A 131 28.299 34.765 13.092 10.00 30.65 N PRO A 131 28.299 34.765 13.092 10.00 39.65 N PRO A 131 27.785 33.538 13.200 10.00 29.02 C C PRO A 131 26.776 32.595 13.637 10.00 39.04 0 C CB PRO A 131 29.785 33.538 13.200 10.00 29.02 C C CB PRO A 131 30.409 35.087 15.136 10.00 28.44 C CG PRO A 131 30.409 35.087 15.136 10.00 28.97 C C CD PRO A 131 30.409 35.087 15.033 10.00 28.97 C C CD PRO A 131 30.409 35.087 15.033 10.00 28.97 C C CD PRO A 131 30.409 35.087 15.033 10.00 28.97 C C C PRO A 131 30.409 35.087 15.033 10.00 28.97 C C C PRE A 132 28.441 33.063 1.12.156 10.00 27.76 N N PRE A 132 28.441 33.063 1.12.156 10.00 27.76 N C C PRE A 132 28.49 33.063 1.12.156 10.00 27.78 N C C PRE A 132 29.100 30.991 1.10.180 10.00 27.78 C C C PRE A 132 29.100 30.991 1.10.08 10.00 27.78 C C C PRE A 132 29.895 30.505 1.12.187 10.00 28.13 C C CD PRE A 132 31.227 30.847 1.23.39 1.00 22.78 C C CD PRE A 132 31.227 30.847 1.23.39 1.00 27.70 C C CEI PRE A 132 29.991 39.90 1.10.02 27.70 C C CEI PRE A 132 31.227 30.847 1.23.39 1.00 27.70 C C CEI PRE A 132 31.227 30.847 1.23.39 1.00 27.70 C C CEI PRE A 132 31.227 30.847 1.23.39 1.00 27.70 C C CEI PRE A 132 31.227 30.847 1.23.39 1.00 27.70 C C CEI PRE A 133 28.991 30.992 1.44.13 1.00 27.70 C C CEI PRE A 133 28.991 30.992 1.9954 1.00 27.70 C C CEI PRE A 133 24.994 30.990 8.44.91 1.00 27.70 C C CEI PRE A 133 24.994 30.990 8.44.91 1.00 22.80 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.80 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.80 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.80 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.80 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.83 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.83 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.83 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.83 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.83 C C C PRE A 133 24.994 30.990 8.44.91 1.00 22.90 C C C PRE A 133 24.994 30.990 8.499 1.00 22.90 C C C PRE A 133 24.994 30.990 8.499 1.00 22.90 C C C PRE A 133 24.994 30.990 8.499 1.00 22.90 C C C PRE A 133 24.994 30.990 8.							-10.023	1.00	30.42	С
CA							-10.587	1.00	30.47	0
C PRO A 131 27.785 13.528 -13.200 100 29.01 C CB PRO A 131 26.776 32.955 -13.6377 1.00 30,14 O CB PRO A 131 29.124 34.375 -15.126 1.00 328.44 O CD PRO A 131 30.409 35.087 -15.126 1.00 22.756 N N PHE A 132 22.441 33.003 -12.136 1.00 27.36 N C PHE A 132 27.779 31.521 10.138 1.00 27.86 N C PHE A 132 27.173 32.211 10.138 1.00 22.786 C CB PHE A 132 29.299 31.457 -9.349 1.00 22.786 C CB PHE A 132 39.295 30.595							-13.092	1.00	30.65	N
O PRO A 131 26.776 32.555 1.36.677 1.00 30.14 0 CG PRO A 131 29.124 34.375 1.5126 1.00 28.44 C CG PRO A 131 30.499 35.087 1.51236 1.00 28.47 C CD PRO A 131 30.499 35.087 1.51236 1.00 28.67 C CD PRO A 131 30.581 35.557 1.36.12 1.00 29.655 C N PHE A 132 27.960 31.926 1.13.80 1.00 27.36 C CA PHE A 132 27.960 31.926 1.13.80 1.00 27.36 C CP HE A 132 27.960 31.926 1.13.80 1.00 27.36 C CP HE A 132 27.950 31.926 1.10.80 1.00 25.65 C C CP HE A 132 27.950 31.926 1.10.80 1.00 25.65 C C CP HE A 132 27.950 31.926 1.10.80 1.00 25.65 C C C PHE A 132 27.950 31.926 1.10.80 1.00 25.65 C C CG PHE A 132 29.895 30.505 1.21.82 1.00 28.645 0 C CG PHE A 132 29.895 30.505 1.21.82 1.00 28.13 C C CD1 PHE A 132 31.227 30.847 1.23.39 1.00 27.90 C CED PHE A 132 31.227 30.847 1.33.49 1.00 27.70 C CEI PHE A 132 31.920 30.424 1.33.452 1.00 27.70 C CEI PHE A 132 31.920 30.424 1.33.452 1.00 27.70 C CEI PHE A 132 31.920 30.424 1.33.452 1.00 27.80 C CZ PHE A 133 29.895 39.30 1.42.18 1.00 27.76 C CEP PHE A 133 29.85 39.30 1.42.18 1.00 27.76 C CEP PHE A 133 29.85 39.90 1.42.61 1.00 27.80 C CZ PHE A 133 29.80 39.91 39.00 1.42.61 1.00 27.80 C CZ PHE A 133 28.92 39.91 39.00 1.42.61 1.00 27.80 C CZ PHE A 133 28.92 39.91 39.00 1.42.61 1.00 27.80 C CZ PHE A 133 28.94 39.35 1.00 24.44 S CA PHE A 133 28.4861 32.706 7.272 1.00 24.54 C CP PHE A 133 24.861 32.706 7.272 1.00 24.54 C CP PHE A 133 24.861 32.706 7.272 1.00 24.55 C CD PHE A 133 24.861 32.706 7.272 1.00 24.56 C CD PHE A 133 24.861 32.706 7.272 1.00 24.58 C CD PHE A 133 24.861 32.706 7.272 1.00 24.56 C CD PHE A 133 24.861 32.706 7.272 1.00 23.58 C CD PHE A 133 24.860 35.593 35.451 1.00 23.58 C CD PHE A 133 24.860 32.706 7.272 1.00 24.58 C CD PHE A 133 24.860 32.706 7.272 1.00 24.58 C CD PHE A 133 24.860 32.706 7.272 1.00 22.55 C CD PHE A 133 24.860 32.706 7.272 1.00 22.55 C CD PHE A 133 24.860 32.80 9.849 1.00 23.71 C CEP PHE A 133 24.860 32.80 9.849 1.00 22.99 C C PHE A 133 24.860 32.80 9.849 1.00 22.99 C C PHE A 133 24.860 32.80 9.981 1.00 22.31 C C PHE A 133 24.860 32.80 9.981 1.00 22.90 C C PRO				\rightarrow		34.765	-13.917	1.00	29.11	С
CB							-13.200	1.00	29.02	С
CG	_	 				32.955	-13.637	1.00	30.14	0
Decoration							-15.126	1.00	28.44	С
N PHE A 132 28.441 33.663 -12.136 1.00 27.36 N CA PHE A 132 27.560 31.926 -11.380 1.00 27.36 N C PHE A 132 27.773 32.321 10.138 1.00 26.08 C O PHE A 132 27.773 32.321 10.138 1.00 26.08 C C PHE A 132 29.179 31.457 9.349 1.00 26.45 0 C PHE A 132 29.120 30.991 10.992 1.00 26.45 0 C PHE A 132 29.289 37.34 10.092 1.00 27.78 C C PHE A 132 29.289 29.734 13.457 10.00 28.13 C C PHE A 132 29.289 29.734 13.457 10.00 28.13 C C PHE A 132 31.227 30.847 12.339 1.00 27.750 C C PHE A 132 31.920 30.424 13.452 1.00 28.55 C C PHE A 132 31.920 30.424 13.452 1.00 28.55 C C PHE A 132 31.308 29.658 14.413 1.00 27.46 C C PHE A 132 31.308 29.658 14.413 1.00 27.46 C C PHE A 133 28.652 33.592 9.954 1.00 24.74 N C PHE A 133 26.121 34.021 8.776 1.00 24.74 N C PHE A 133 24.861 32.706 -7.272 1.00 24.54 C C PHE A 133 24.861 32.706 -7.272 1.00 24.58 C C PHE A 133 24.861 32.706 -7.272 1.00 24.58 C C PHE A 133 24.861 32.706 -7.272 1.00 24.58 C C PHE A 133 24.861 32.706 -7.272 1.00 23.84 C C PHE A 133 24.861 32.706 -7.272 1.00 23.84 C C PHE A 133 24.861 32.706 -7.272 1.00 23.84 C C PHE A 133 24.861 32.706 -7.272 1.00 23.84 C C PHE A 133 24.869 35.899 -6.603 1.00 23.84 C C PHE A 133 24.899 35.591 35.451 8.914 1.00 23.84 C C PHE A 133 24.769 35.849 -6.603 1.00 23.84 C C PHE A 133 22.184 35.882 4.9315 1.00 23.84 C C PHE A 133 22.184 35.882 4.9315 1.00 23.84 C C PHE A 133 22.450 35.595 9.958 1.00 23.584 C C PHE A 133 22.450 35.595 9.958 1.00 23.584 C C PHE A 133 22.450 35.595 9.958 1.00 22.55 C C PHE A 133 22.450 33.855 -6.148 1.00 22.25 C C PHE A 133 22.450 32.868 9.9381 1.00 22.51 N C PHE A 133 22.450 32.868 9.9381 1.00 22.55 C C PHE A 133 22.450 32.868 9.9381 1.00 22.55 C C PHE A 133 22.450 36.550 39.99 1.00 22.55 C C PRO A 135 22.843 30.899 -6.603 1.00 22.55 C C PRO A 135 22.843 30.899 -6.603 1.00 22.55 C C PRO A 135 22.843 30.899 -7.616 1.00 22.24 O C PRO A 135 22.843 30.899 -7.616 1.00 22.25 C C PRO A 135 22.843 30.899 -7.616 1.00 22.25 C C PRO A 135 22.843 30.899 -7.660 1.00 22.55 C C PRO A 135 22.843 30.900 -7.770 1.00 22.55 C C PRO A 135 22.8						35.087	-15.033	1.00	28.97	С
CA PHE A 132 37.960 31.926 -11.380 1.00 27.08 C O PHE A 132 27.173 32.211 -10.138 1.00 26.45 O O PHE A 132 25.759 31.457 9.349 1.00 26.45 O CB PHE A 132 29.120 30.991 10.992 1.00 27.786 C CG PHE A 132 39.995 30.505 12.182 1.00 27.786 C CDI PHE A 132 31.227 30.847 -12.339 1.00 27.70 C CDI PHE A 132 31.227 30.847 -12.339 1.00 27.70 C CDI PHE A 132 31.227 30.847 -12.339 1.00 27.70 C CE2 PHE A 132 31.920 30.424 13.452 1.00 27.70 C CE2 PHE A 132 31.920 30.424 13.452 1.00 27.70 C CC2 PHE A 132 31.308 29.655 14.261 1.00 27.80 C CC2 PHE A 132 31.308 29.655 14.261 1.00 27.80 C CC2 PHE A 132 31.308 29.655 14.261 1.00 27.40 C CC PHE A 133 26.652 33.992 9.954 10.00 27.474 N CC PHE A 133 26.652 33.992 9.954 10.00 24.54 C C PHE A 133 26.652 33.992 9.954 10.00 24.54 C C PHE A 133 24.964 33.090 8.439 1.00 24.54 C C PHE A 133 24.964 30.990 8.439 1.00 24.54 C C PHE A 133 24.964 33.990 8.439 1.00 24.54 C C PHE A 133 24.964 33.990 8.439 1.00 24.54 C C PHE A 133 25.593 35.551 8.914 1.00 24.56 C CB PHE A 133 25.593 35.451 8.914 1.00 24.48 C C PHE A 133 25.593 35.451 8.914 1.00 24.48 C CD PHE A 133 25.593 35.451 8.914 1.00 24.96 O CB PHE A 133 22.493 35.71 7.943 1.00 23.58 C CD PHE A 133 25.593 35.451 8.914 1.00 24.96 O CB PHE A 133 22.493 35.71 7.943 1.00 23.58 C CD PHE A 133 22.493 35.71 7.943 1.00 23.57 C CC PHE A 133 22.450 36.555 9.9581 1.00 23.70 C CC PHE A 133 22.450 36.555 9.9581 1.00 23.70 C CC PHE A 133 22.450 36.555 9.9581 1.00 23.70 C CC PHE A 133 22.450 36.555 9.9581 1.00 23.70 C CC PHE A 133 22.450 36.555 9.9581 1.00 22.55 C C PHE A 133 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55 C C PRO A 135 22.450 36.555 9.9581 1.00 22.55		+				35.557		1.00	29.65	С
C PHE A 132 27,173 32,231 -10,138 1.00 26,645 C CB PHE A 132 29,120 30,991 -10,982 1.00 26,645 0 CG PHE A 132 29,120 30,991 -10,982 1.00 28,13 C CG PHE A 132 29,895 30,505 +12,182 1.00 28,13 C CD1 PHE A 132 29,289 29,734 +13,149 1.00 27,700 C CD2 PHE A 132 29,289 29,734 +13,149 1.00 27,70 C CE1 PHE A 132 29,991 29,506 +14,261 1.00 27,46 C CZ PHE A 132 31,308 29,658 +14,413 1.00 24,54 C CZ PHE A 133 26,522 33,592								1.00	27.36	N
O PHE A 132 26.759 31.457 -9.349 1.00 26.45 O CB PHE A 132 29.120 30.991 -10.982 1.00 27.86 C CG PHE A 132 29.895 30.505 12.1282 1.00 27.790 C CDI PHE A 132 31.227 30.847 -12.339 1.00 27.700 C CEI PHE A 132 39.289 29.734 -13.149 1.00 27.700 C CEI PHE A 132 31.920 30.424 -13.452 1.00 27.70 C CE PHE A 132 31.930 30.424 -13.452 1.00 27.70 C CE PHE A 133 26.852 33.592 -9.954 1.00 24.74 N CE PHE A 133 24.961 32.00							-11.380	1.00	27.08	C
CB							-10.138	1.00	26.08	С
CD						31.457	-9.349	1.00	26.45	0
CD1						+		1.00	27.86	C
CD2								1.00	28.13	С
CEI PHE A 132 31.920 30.424 -13.452 1.00 22.75 C C C PHE A 132 29.991 29.306 -14.261 1.00 27.80 C C PHE A 132 29.991 29.306 -14.261 1.00 27.80 C C PHE A 133 29.598 -14.413 1.00 27.46 C C PHE A 133 26.852 33.592 -9.954 1.00 24.74 N C C PHE A 133 26.852 33.592 -9.954 1.00 24.54 C C PHE A 133 24.861 33.090 -8.476 1.00 24.54 C C PHE A 133 24.861 33.090 -8.439 1.00 24.38 C C PHE A 133 24.861 32.706 -7.272 1.00 24.96 O C PHE A 133 24.861 32.706 -7.272 1.00 24.96 O C PHE A 133 24.861 35.593 35.451 8.914 1.00 24.48 C C PHE A 133 24.769 35.949 -6.603 1.00 23.58 C C PHE A 133 24.769 35.949 -6.603 1.00 23.384 C C C PHE A 133 22.167 35.882 8.375 1.00 23.84 C C PHE A 133 22.167 36.173 -7.492 1.00 23.70 C C PHE A 133 22.167 36.173 -7.492 1.00 23.70 C C PHE A 133 22.450 36.356 -6.148 1.00 23.570 C C PHE A 134 24.050 32.868 9.381 1.00 23.570 C C PHE A 134 24.050 32.868 9.381 1.00 23.51 N C C PHE A 134 22.876 32.053 9.996 1.00 22.25 C C VAL A 134 22.876 33.053 9.996 1.00 22.25 C C VAL A 134 22.843 33.189 -7.616 1.00 22.25 C C VAL A 134 22.843 33.189 -7.616 1.00 22.25 C C VAL A 134 23.865 33.615 -6.148 1.00 22.27 C C VAL A 134 23.865 30.617 -8.725 1.00 22.27 C C VAL A 134 23.865 30.617 -7.8725 1.00 22.27 C C VAL A 134 23.865 30.617 -7.8725 1.00 22.27 C C VAL A 134 23.865 30.617 -7.8725 1.00 22.27 C C VAL A 134 23.865 30.617 -7.8725 1.00 22.27 C C VAL A 134 23.865 30.617 -7.8725 1.00 22.27 C C VAL A 134 23.865 30.617 -7										С
CE2									27.70	С
CZ PHE A 132 31,308 29,558 -14,413 1.00 27,46 C N PHE A 133 26,882 33,592 -9,954 1.00 22,74 N CA PHE A 133 26,812 33,090 -8,439 1.00 24,54 C C PHE A 133 24,864 33,090 -8,439 1.00 24,548 C O PHE A 133 24,861 32,006 -7,272 1.00 24,488 C CB PHE A 133 24,493 35,771 -7,943 1.00 24,48 C CDI PHE A 133 24,493 35,771 -7,943 1.00 23,58 C CDI PHE A 133 23,751 36,486 -5,709 1.00 23,71 C CE2 PHE A 133 22,450 36,356 -6,									28.55	С
N									27.80	С
CA PHE A 133 26.121 34.021 -8.776 1.00 24.54 C C PHE A 133 24.964 33.090 -8.439 1.00 24.38 C O PHE A 133 24.861 32.706 -7.272 1.00 24.96 O O PHE A 133 24.861 32.706 -7.272 1.00 24.48 C CB PHE A 133 24.861 32.706 -7.272 1.00 24.48 C CB PHE A 133 24.493 35.771 -7.943 1.00 23.58 C CD1 PHE A 133 24.493 35.771 -7.943 1.00 23.58 C CD2 PHE A 133 24.769 35.949 -6.603 1.00 23.84 C CD2 PHE A 133 23.184 35.882 -8.375 1.00 23.84 C CC2 PHE A 133 22.167 36.173 -7.492 1.00 23.70 C CC2 PHE A 133 22.167 36.173 -7.492 1.00 23.70 C CC2 PHE A 133 22.167 36.173 -7.492 1.00 23.70 C CC2 PHE A 133 22.450 36.356 -6.148 1.00 23.57 C CC PHE A 134 24.050 32.868 9.381 1.00 23.57 C CC PAL A 134 22.876 32.053 9.096 1.00 22.55 C C VAL A 134 22.876 32.053 9.096 1.00 22.25 C C VAL A 134 22.843 30.189 -7.616 1.00 22.25 C C VAL A 134 22.843 30.189 -7.616 1.00 22.25 C CG VAL A 134 21.848 32.123 -10.242 1.00 22.72 C CG VAL A 134 21.848 33.123 -10.242 1.00 22.75 C CG VAL A 134 21.848 33.123 -10.242 1.00 22.75 C CG VAL A 134 21.848 33.123 -10.242 1.00 22.75 C CG VAL A 134 21.386 33.553 -10.432 1.00 22.11 C CG VAL A 134 21.386 33.553 -10.432 1.00 22.11 C CG VAL A 135 23.800 29.826 -9.581 1.00 22.77 C C PRO A 135 25.084 28.127 -8.241 1.00 22.78 N CA PRO A 135 25.084 28.127 -8.241 1.00 22.79 C C PRO A 135 25.084 28.127 -8.241 1.00 22.79 C C PRO A 135 25.084 28.127 -8.241 1.00 22.79 C C PRO A 135 25.084 28.127 -8.241 1.00 22.99 C C PRO A 135 25.084 28.127 -8.241 1.00 22.99 C C PRO A 135 25.084 28.127 -8.241 1.00 22.99 C C PRO A 135 25.084 28.127 -6.556 1.00 19.91 1000 C CB PRO A 135 25.084 28.127 -6.556 1.00 19.91 1000 C CB PRO A 135 25.084 28.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 135 25.084 38.127 -6.556 1.00 19.91 1001 C C PRO A 136 26.282 29.958 1.00 22.99 1.00 17.20 1001 C C PRO A 136 27.926 29.995 1.									27.46	С
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O VAL A 134 22.843 30.189 -7.616 1.00 22.24 O CB VAL A 134 21.848 32.123 -10.242 1.00 22.72 C CGI VAL A 134 20.6599 31.215 -9.955 1.00 22.55 C CG2 VAL A 134 21.386 33.553 -10.432 1.00 22.11 C N PRO A 135 23.800 29.826 -9.581 1.00 22.78 N CA PRO A 135 24.084 28.420 -9.339 1.00 22.59 C C PRO A 135 25.084 28.127 -8.241 1.00 22.00 C O PRO A 135 25.281 26.982 -7.813 1.00 22.00 C O PRO A 135 25.181 27.924 1.00 </td <td>C</td> <td>VAL</td> <td>A</td> <td>134</td> <td>23.165</td> <td></td> <td></td> <td></td> <td></td> <td></td>	C	VAL	A	134	23.165					
CB VAL A 134 21.848 32.123 -10.242 1.00 22.72 C CG1 VAL A 134 20.659 31.215 -9.955 1.00 22.55 C CG2 VAL A 134 21.386 33.553 -10.432 1.00 22.11 C N PRO A 135 23.800 29.826 -9.581 1.00 22.78 N CA PRO A 135 24.084 28.420 -9.389 1.00 22.59 C C PRO A 135 25.084 28.127 -8.241 1.00 22.00 C O PRO A 135 25.281 26.982 -7.813 1.00 22.80 O 1000 CB PRO A 135 25.145 29.121 -10.681 1.00 22.31 1001 CG PRO A 135 25.145 29.		VAL	A	134	22.843	30.189	-7.616	1.00		
CG1 VAL A 134 20.659 31.215 -9.955 1.00 22.55 C CG2 VAL A 134 21.386 33.553 -10.432 1.00 22.11 C N PRO A 135 23.800 29.826 -9.581 1.00 22.78 N CA PRO A 135 24.084 28.420 -9.339 1.00 22.59 C C PRO A 135 25.084 28.127 -8.241 1.00 22.00 C O PRO A 135 25.281 26.982 -7.813 1.00 20.80 O 1000 CB PRO A 135 24.618 27.904 -10.681 1.00 22.31 1001 CG PRO A 135 24.211 30.240 -10.681 1.00 22.31 1002 CD PRO A 135 24.211		VAL	Α	134	21.848	32.123	-10.242	1.00		
CG2 VAL A 134 21,386 33,553 -10,432 1.00 22.11 C N PRO A 135 23,800 29,826 -9,581 1.00 22.78 N CA PRO A 135 24,084 28,420 -9,339 1.00 22,59 C C PRO A 135 25,084 28,127 -8,241 1.00 22,00 C O PRO A 135 25,281 26,982 -7,813 1.00 20,80 O 1000 CB PRO A 135 24,618 27,904 -10,681 1.00 22,31 1001 CG PRO A 135 25,145 29,121 -11,356 1.00 21,93 1002 CD PRO A 135 24,211 30,240 -10,954 1.00 22,09 1003 N SER A 136 25,773 <t< td=""><td></td><td></td><td>Α</td><td>134</td><td>20.659</td><td>31.215</td><td>-9.955</td><td>1.00</td><td></td><td></td></t<>			Α	134	20.659	31.215	-9.955	1.00		
CA PRO A 135 24.084 28.420 -9.339 1.00 22.58 C C PRO A 135 25.084 28.127 -8.241 1.00 22.00 C O PRO A 135 25.281 26.982 -7.813 1.00 20.80 O 1000 CB PRO A 135 24.618 27.904 -10.681 1.00 22.31 1001 CG PRO A 135 25.145 29.121 -11.356 1.00 22.31 1001 CG PRO A 135 25.145 29.121 -11.356 1.00 22.99 1003 N SER A 136 25.773 29.170 -7.770 1.00 22.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.823			Α	134	21.386	33.553	-10.432	1.00	22.11	
C PRO A 135 25.084 28.127 -8.241 1.00 22.09 C O PRO A 135 25.281 26.982 -7.813 1.00 20.80 O 1000 CB PRO A 135 24.618 27.904 -10.681 1.00 22.31 1001 CG PRO A 135 25.145 29.121 -11.356 1.00 21.93 1002 CD PRO A 135 24.211 30.240 -10.954 1.00 22.09 1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 27.926			A	135	23.800	29.826	-9.581	1.00	22.78	N
O PRO A 135 25.281 26.982 -7.813 1.00 20.80 O 1000 CB PRO A 135 24.618 27.904 -10.681 1.00 22.31 1001 CG PRO A 135 25.145 29.121 -11.356 1.00 21.93 1002 CD PRO A 135 24.211 30.240 -10.954 1.00 22.09 1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.758 29.002 -6.719 1.00 20.34 1006 O SER A 136 26.758 29.002 -6.719 1.00 19.91 1006 O SER A 136 27.926						28.420	-9.339	1.00	22.59	С
1000 CB PRO A 135 22.618 27.904 -10.681 1.00 22.31 1001 CG PRO A 135 25.145 29.121 -11.356 1.00 22.31 1002 CD PRO A 135 24.211 30.240 -10.954 1.00 22.09 1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 26.823 28.970 -4.356 1.00 21.13 1007 CB SER A 136 27.646 31.272 -6.556 1.00 19.97 1008 OG SER A 136 27.646 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>28.127</td> <td>-8.241</td> <td>1.00</td> <td>22.00</td> <td>С</td>						28.127	-8.241	1.00	22.00	С
1001 CG PRO A 135 25.145 29.121 -11.356 1.00 22.31 1002 CD PRO A 135 25.145 29.121 -11.356 1.00 21.93 1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 26.823 28.970 -4.356 1.00 21.13 1007 CB SER A 136 27.926 29.958 -6.967 1.00 19.97 1008 OG SER A 136 27.646 31.272 -6.556 1.00 19.96 1009 N THR A 137 24.936 <td></td> <td></td> <td></td> <td>+</td> <td></td> <td>26.982</td> <td>-7.813</td> <td>1.00</td> <td>20.80</td> <td>0</td>				+		26.982	-7.813	1.00	20.80	0
1002 CD PRO A 135 24.211 30.240 -10.954 1.00 22.09 1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 26.823 28.970 -4.356 1.00 21.13 1007 CB SER A 136 27.926 29.958 -6.967 1.00 19.96 1008 OG SER A 136 27.926 29.958 -6.967 1.00 19.96 1009 N THR A 137 24.936 29.770 -5.285 1.00 19.96 1010 CA THR A 137 22.985								-10.681	1.00	22.31
1003 N SER A 136 25.773 29.170 -7.770 1.00 21.31 1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 26.823 28.970 -4.356 1.00 19.91 1007 CB SER A 136 27.926 29.958 -6.967 1.00 19.97 1008 OG SER A 136 27.646 31.272 -6.556 1.00 19.96 1009 N THR A 137 24.936 29.770 -5.285 1.00 18.88 1010 CA THR A 137 24.280 30.087 -4.040 1.00 18.15 1011 C THR A 137 22.985 29.351 -3.757 1.00 18.90 1012 O THR A 137 22.581 29.274 -2.581 1.00 18.18 1013 CB THR A 137 23.916 31.604 -3.999 1.00 17.20 1014 OG1 THR A 137 25.142 32.469 -4.124 1.00 19.95 1015 CG2 THR A 138 22.213 29.041 -4.804 1.00 19.45 1016 N ILE A 138 22.213 29.041 -4.804 1.00 19.38 1018 C ILE A 138 21.852 26.292 -4.159 1.00 20.13 1009 CR CR CR CR CR CR CR C										21.93
1004 CA SER A 136 26.758 29.002 -6.719 1.00 20.34 1005 C SER A 136 26.155 29.251 -5.348 1.00 19.91 1006 O SER A 136 26.823 28.970 -4.356 1.00 21.13 1007 CB SER A 136 27.926 29.958 -6.967 1.00 19.97 1008 OG SER A 136 27.646 31.272 -6.556 1.00 19.96 1009 N THR A 137 24.936 29.770 -5.285 1.00 18.88 1010 CA THR A 137 24.936 29.770 -5.285 1.00 18.88 1011 C THR A 137 22.985 29.351 -3.757 1.00 18.90 1012 O THR A 137 22.581										
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1019 O ILE A 138 21.852 26.292 4.159 1.00 20.13	1018									_
1000 CD U.S.	1019	0								
	1020	СВ	ILE			19.979	28.411	-5.760	1.00	19.43

				641	////				
1021	CGI	ILE	A	138	20.656	27.763	-6.974	1.00	20.56
1022	CG2	ILE	A	138	19.521	29 812	-6.159	1.00	20.24
1023	CDI	ILE	Α	138	19.620	27.294	-7.992	1.00	21.35
1024	N	VAL	A	139	20.169	26.936	-2.869	1.00	19.63
1025	CA	VAL	A	139	20.091	25.787	-2.011	1.00	19.91
1026	С	VAL	Α	139	20.157	24.438	-2.666	1.00	20.52
1027	0	VAL	A	139	20.631	23.510	-1.962	1.00	23.00
1028	СВ	VAL	Α	139	18.802	25.907	-1.153	1.00	19.95
1029	CGI	VAL	A	139	18.110	24.594	-0.875	1.00	20.14
1030	CG2	VAL	A	139	19.171	26.598	0.161	1.00	20.44
1031	N -	ASN	A	140	19.684	24.204	-3.870 -4.407	1.00	19.62 20.62
1032	CA	ASN_	A	140	19.595	22.851	-5.143	1.00	22.05
1033	C 0	ASN ASN	A	140	20.998	21.205	-5.505	1.00	22.79
1034	СВ	ASN	A	140	18.333	22.766	-5.279	1.00	20.75
1036	CG.	ASN	A	140	18.373	23.691	-6.475	1.00	21.68
1030	ODI	ASN	A	140	18.428	24.917	-6.348	1.00	22.22
1038	ND2	ASN	A	140	18.366	23.136	-7.680	1.00	21.47
1039	N	MET	A	141	21.844	23.243	-5.265	1.00	22.68
1040	CA	MET	Α	141	23.058	22.907	-6.003	1.00	22.86
1041	C	MET	A	141	23.939	21.864	-5.363	1.00	23.14
1042	0	MET	Α	141	24.860	21.356	-6.043	1.00	23.70
1043	СВ	MET	Α	141	23.793	24.197	-6.361	1.00	23.57
1044	CG	MET	A	141	22.939	25.084	-7.273	1.00	24.80
1045	SD	MET	Α	141	22.306	24.187	-8.701	1.00	26.52
1046	CE	MET	A	141	23.795	23.997	-9.681	1.00	25.92
1047	N	VAL	A	142	23.717	21.457	-4.114	1.00	22.25
1048	CA	VAL	Α	142	24.512	20.395	-3.526	1.00	22.45
1049	C	VAL	A	142	24.079	19.083	-4.204 -4.674	1.00	22.97
1050	0	VAL	Α	142	24.896	20.211	-2.019	1.00	23.14
1051	CGI	VAL	A	142	25.179	19.008	-1.546	1.00	22.56
1052	CG2	VAL	A	142	24.799	21.460	-1.269	1.00	24.17
1054	N	ALA	A	143	22.756	18.911	-4.309	1.00	22.65
1055	CA	ALA	A	143	22.230	17.712	-4.972	1.00	21.73
1056	C	ALA	A	143	22.517	17.765	-6.474	1.00	21.76
1057	ō	ALA	A	143	22.745	16.729	-7.096	1.00	20.55
1058	СВ	ALA	Α	143	20.755	17.536	4.701	1.00	20.45
1059	N	GLY	Α	144	22.521	18.971	-7.035	1.00	22.30
1060	CA	GLY	Α	144	22.787	19.154	-8.455	1.00	23.35
1061	С	GLY	Α	144	24.162	18.611	-8.800	1.00	25.42
1062	0	GLY	A	144	24.296	17.682	-9.596	1.00	25.76
1063	N	HIS	A	145	25.196	19.154	-8.144	1.00	26.63
1064	CA	HIS	A	145	26.554	18.700	-8.407	1.00	26.89
1065	C	HIS	A	145	26.729 27.448	16.535	-8.086 -8.832	1.00	30.31
1066	0	HIS	A	145	27.585	19.534	-7.650	1.00	26.46
1067	CB	HIS	 ^	145	27.805	20.892	-8.244	1.00	26.84
1068	NDI	HIS	A	145	27.292	22.047	-7.675	1.00	27.40
1070	CD2	HIS	Ā	145	28.472	21.290	-9.348	1.00	26.01
1071	CEI	HIS	Ā	145	27.648	23.093	-8.405	1.00	26.74
1072	NE2	HIS	A	145	28.366	22.655	-9.424	1.00	25.68
1073	N	LEU	A	146	26.131	16.715	-7.008	1.00	27.39
1074	CA	LEU	A	146	26.354	15.300	-6.698	1.00	27.60
1075	С	LEU	Α	146	25.747	14.423	-7.779	1.00	27.47
1076	0	LEU	Α	146	26.404	13.496	-8.264	1.00	27.20
1077	СВ	LEU	A	146	25.858	14.921	-5.309	1.00	28.44
1078	CG	LEU	A	146	26.876	15.053	-4.170	1.00	28.92
1079	CDI	LEU	A	146	26.181	15.129	-2.814	1.00	28.98
1080	CD2	LEU	A	146	27.861	13.895	-4.189	1.00	28.98
1801	N	THR	A	147	24.508	14.709	-8.180	1.00	27.23
1082	CA	THR	<u> </u>	147	23.882	13.907	-9.228	1.00	27.05 28.80
1083	C	THR	A	147	24.791	13.868	-10.457	1.00	30.40
1084	0	THR	A	147	25.146	12.771	-10.910	1.00	25.46
1085	CB	THR	<u>A</u>	147	22.496	14.423	-9.619 -10.043	1.00	25.22
1086	OG1	THR	A	147	22.616	14.349	-8.457	1.00	24.87
1087	CG2	THR	A	148	25.193	15.019	-10.977	1.00	28.90
1088	I N	ILE		1 140	42.173	15.017			

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1089	CA	ILE	A	148	26.106	15.077	-12.110	. 1.00	29.46
1090	<u> </u> C .	ILE	A	148	27.356	14.247	-11.854	1.00	30.29
1091	10	ILE	A	148	27.645	13.327	-12.620	1.00	30.71
1092	CB CG1	ILE	A	148	26.522	16.527	-12.426	1.00	29.60
1093	CG2	ILE	A	148	25.279	17.399	-12.625	1.00	28.38
1095	CDI	ILE	A	148	27.434	16.568	-13.644	1.00	29.51
1096	N	ILE	A	148	25.560	18.880	-12.562	1.00	27.09
1097	CA	MET	<u> A</u>	149	28.092	14.530	-10.789	1.00	31.24
1098	C	MET	A	149	29.290	13.793	-10.437	1.00	32.79
1099	10	MET	_ A	149	29.123	12.277	-10.514	1.00	32.64
1100	CB	MET	- A	149	30.014	11.601	-11.042	1.00	33.82
1101	CG	MET	A	149	29.743	14.124	-9.017	1.00	35.34
1102	SD	MET	A	149	30.335	15.489	-8.763	1.00	37.46
1103	CE	MET	A	149	31.040	15.582	-7.096	1.00	39.92
1104	N	TYR	A	150	32.783	15.753	-7.480	1.00	39.57
1105	CA	TYR	Â	150	28.089	11.691	-9.929	1.00	31.98
1106	c	TYR	I A	150	27.938	10.243	-9.929	1.00	32.50
1107	0	TYR	A	150	26.979 26.625	9.745	-10.996	1.00	32.78
1108	CB	TYR	Ā	150	27.487	8.561	-11.031	1.00	32.62
1109	CG	TYR	Ā	150	28.616	9.741	-8.543	1.00	32.88
1110	CDI	TYR	A	150	28.787	9.791	-7.531	1.00	33.65
1111	CD2	TYR	Ā	150	29.523	8.745	-6.689	1.00	33.91
1112	CEI	TYR	A	150	29.824	10.921	-7.442 -5.775	1.00	34.07
1113	CE2	TYR	A	150	30.562	8.780		1.00	34.19
1114	CZ	TYR	A	150	30.712	9.871	-6.533 -5.702	1.00	34.79
1115	ОН	TYR	A	150	31.754	9.899	-4.809	1.00	34.49
1116	N	GLY	A	151	26.504	10.638	-11.857	1.00	34.71
1117	CA	GLY	Α	151	25.539	10.272	-12.881	1.00	33.16
1118	С	GLY	A	151	24.236	9.746	-12.295	1.00	33.99
1119	0	GLY	Α	151	23.721	8.729	-12.764	1.00	33.51
1120	N	LEU	Α	152	23.684	10.448	-11.306	1.00	34.49
1121	CA	LEU	Α	152	22.410	10.038	-10.710	1.00	35.95
1122	C	LEU	A	152	21.234	10.598	-11.501	1.00	36.26
1123	0	LEU	A	152	21.235	11.778	-11.880	1.00	36.43
1124	CB	LEU	A	152	22.350	10.461	-9.241	1.00	36.93
1125	CG	LEU	A	152	23.622	10.233	-8.413	1.00	37.72
1126	CDI	LEU	A	152	23.500	10.893	-7.044	1.00	38.07
1127	CD2	LEU	Α	152	23.921	8.752	-8.251	1.00	37.08
1128	N	ARG	Α	153	20.282	9.734	-11.869	1.00	35.94
1129 1130	CA C	ARG	A	153	19.153	10.166	-12.686	1.00	35.63
1131	0	ARG	I A	153	17.825	9.995	-11.954	1.00	33.77
1132	СВ	ARG	A	153	16.778	10.303	-12.533	1.00	33.81
1133	CG		A	153	19.085	9.447	-14.033	1.00	37.46
1134	CD	ARG	A	153	20.399	9.116	-14.690	1.00	39.69
1135	NE ·	ARG	A	153	20.431	9.337	-16.176	1.00	41.60
1136	CZ	ARG	Â	153	19.403	8.616	-16.922	1.00	44.39
1137	NHI	ARG	A	153	18.686	9.211	-17.887	1.00	45.81
1138	NH2	ARG	Â	153		10.499	-18.149	1.00	46.89
1139	N	GLY	A	154	17.756	8.573	-18.571	1.00	45.33
140	CA	GLY	Ā	154	16.596	9.525 9.388	-10.711	1.00	30.89
141	C	GLY '	Ā	154	16.126	10.755	-9.976	1.00	29.41
142	0	GLY	A	154	16.662	11.805	-9.479	1.00	28.32
143	N	PRO	A	155	15.114	10.743	-9.842	1.00	27.72
144	CA	PRO	A	155	14.569	11.943	-8.622 -8.024	1.00	27.50
145	С	PRO	A	155	15.587	12.845	-7.363	1.00	27.96
146	0	PRO	A	155	16.486	12.456	-6.620	1.00	28.74
147	CB	PRO	A	155	13.558	11.412	-7.002	1.00	28.70
148	CG	PRO	A	155	13.139	10.097	-7.577	1.00	27.50
149	CD	PRO	A	155	14.397	9.522	-8.175	1.00	26.81
150	N	SER	A	156	15.428	14.144	-7.570		26.49
151	CA	SER	A	156	16.307	15.171	-7.057	1.00	30.55
	С	SER	A	156	15.549	16.270	-6.329	1.00	31.21
153	0	SER	A	156 .	15.151	17.240	-6.995	1.00	31.29
154	СВ	SER	A	156	17.001	15.840	-8.265	1.00	32.20 32.95
155	OG	SER	A	156	18.380	15.560	-8.281	1.00	36.38
	N	ILE	A	157	15.342	16.183	-5.026	1.00	30.79
							3.020	1.00	JU./7

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1157	CA	ILE	A	157	14.683	17.270	-4.316	1.00	T 20.18
1158	C	ILE	Α	157	15.620	17.914	3.290	1.00	30.48 29.11
1159	0	ILE	A	157	16.697	17.404	-3.002	1.00	29.11
1160	CB	ILE	Α	157	13.403	16.871	-3.567	1.00	31.29
1161	CGI	ILE	A	157	13.573	15.532	-2.850	1.00	31.57
1162	CG2	IL.E	A	157	12.213	16.868	-4.511	1.00	30.63
1163	CDI	ILE	Α	157	12.682	15.412	-1.625	1.00	31.50
1164	N	SER	Α	158	15.176	19.043	-2.753	1.00	27.18
1165	CA	SER	Α	158	15.892	19.794	-1.739	1.00	25.03
1166	C	SER	Α	158	14.893	20.515	-0.823	1.00	23.56
1167	10	SER	Α	158	14.220	21.451	-1.244	1.00	23.34
1168	CB	SER	Α	158	16.836	20.827	-2.322	1.00	25.63
1169	OG	SER	A	158	17.772	20.304	-3.231	1.00	27.19
1170	N	ILE	A	159	14.791	20.079	0.421	1.00	22.08
1171	CA	ILE	A	159	13.877	20.732	1.364	1.00	21.08
1172	C	ILE	Α	159	14.610	21.800	2.162	1.00	21.52
1173	0	ILE	A	159	15.714	21.582	2.690	1.00	22.88
1174	СВ	ILE	Α	159	13.225	19.698	2.295	1.00	19.94
1175	CGI	ILE	A	159	12.349	18.764	1.451	1.00	18.45
1176	CG2	ILE	A	159	12.423	20.370	3.386	1.00	19.41
1177	CDI	ILE	A	159	11.674	17.668	2.231	1.00	18.07
1178	N	ALA	A	160	14.032	22.986	2.213	1.00	20.71
1179	CA	ALA	A	160	14.620	24.115	2.917	1.00	20.75
1180	1 c	ALA	_ A	160	13.679	24.596	4.021	1.00	21.65
1181	CB	ALA	A	160	12.925	25.547	3.818	1.00	21.95
1183	N	ALA THR	- A	160	14.891	25.245	1.943	1.00	21.36
1184	CA	THR	- A	161	13.742	23.921	5.166	1.00	20.97
1185	c	THR	A	161	12.891	24.251	6.299	1.00	20.26
1186	0	THR	TÂ -	161	13.702	24.702	7.504	1.00	20.52
1187	СВ	THR	A	161	12.021	24.136	8.594	1.00	20.22
1188	OGI	THR	A	161	12.783	21.838	6.676	1.00	19.65
1189	CG2	THR	A	161	10.807	22.936	5.759	1.00	17.83
1190	N	ALA	A	162	14.588	25.679	7.284	1.00	19.91
1191	CA	ALA	Α	162	15.388	26.216	8.382	1.00	19.96
1192	С	ALA	A	162	16.121	25.080	9.083	1.00	21.41
1193	0	ALA	A	162	16.612	24.164	8.414	1.00	21.12
1194	CB	ALA	. A	162	14.479	26.948	9.353	1.00	19.07
1195	N	CYS	A	163	16.122	25.066	10.415	1.00	21.82
1196 1197	CA_	CYS	A	163	16.785	24.038	11.185	1.00	23.27
1198	0	CYS	A	163	16.148	22.662	11.143	1.00	22.15
1199	СВ	CYS	<u> </u>	163	16.667	21.756	11.814	1.00	21.45
1200	SG	CYS	A	163	16.880	24.441	12.673	1.00	24.71
1201	N	THR	A	163	17.913	25.911	12.915	1.00	28.93
1202	CA	THR	A	164	15.037	22.488	10.446	1.00	21.76
1203	С	THR	A	164	14.888	21.156	10.329	1.00	21.16
1204	0	THR	A	164	14.714	19.323	9.020 8.840	1.00	20.59
1205	CB	THR	A	164	12.927	21.172	10.433	1.00	20.83
1206	0G1	THR	Α	164	12.549	22.030	11.519	1.00	21.06
1207	CG2	THR	A	164	12.396	19.772	10.675	1.00	20.38
1208	N	SER	Α	165	15.513	21.302	8.153	1.00	21.25
1209	CA	SER	Α	165	15.984	20.830	6.858	1.00	21.35
1210	C	SER	Α	165	16.609	19.451	6.925	1.00	21.57
1211	O	SER	A	165	16.155	18.544	6.235	1.00	21.53
1212	CB	SER	A	165	17.007	21.809	6.265	1.00	20.98
1213	OG .	SER	A	165	16.371	23.066	6.071	1.00	21.82
1214	CA .	GLY	A	166	17.618	19.286	7.774	1.00	22.48
216	CA C	GLY	Α	166	18.315	18.020	7.925	1.00	22.79
217	-	GLY	A	166	17.388	16.830	8.069	1.00	22.94
218	N	GLY VAL	A .	166	17.567	15.809	7.409	1.00	22.55
219	CA	VAL	A	167	16.444	16.936	9.004	1.00	23.72
220	C	VAL	A	167	15.506	15.848	9.271	1.00	24.29
221	ö	VAL	Â	167	14.558	15.638 14.509	8.109	1.00	24.54
222	CB	VAL	Â	167	14.767	16.094	7.627	1.00	26.12
223	CGI	VAL	Ä	167	13.442	15.358	10.592	1.00	24.57
224	CG2	VAL	A_	167	15.675	15.663	11.743	1.00	25.23
								1.00	24.67

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1225	N	HIS	A	168	13.991	16.711	7.572	1.00	24.23
1226	CA	HIS	A	168	13.060	16.594	6.455	1.00	23.72
1227	ļ c	HIS	A	168	13.671	15.915	5.243	1.00	23.37
1228	0	HIS	A	168	13.003	15.055	4.637	1.00	24.37
1229	CB	HIS	A	168	12.494	17.964	6.099	1.00	23.34
1230	CG	HIS	A	168	11.429	18.457	7.027	1.00	23.31
1231	NDI	HIS	Α	168	11.102	19.797	7.120	1.00	22.78
1232	CD2	HIS	<u> </u>	168	10.613	17.813	7.897	1.00	22.79
1233	CEI	HIS	A	168	10.138	19.951	8.014	1.00	22.01
1235	NE2 N	HIS	A	168	9.823	18.768	8.491	1.00	21.89
1236	CA	ASN	A	169	14.898	16.225	4.857	1.00	22.74
1237	c	ASN	_ A	169	15.502	15.616	. 3.663	1.00	23.00
1238	6	ASN ASN	- A	169	15.656	14.107	3.822	1.00	23.66
1239	СВ	ASN	A	169	15.361	13.299	2.934	1.00	23.83
1240	CG	ASN	1A	169	16.826	16.291	3.343	1.00	22.66
1241	ODI	ASN	A	169	16.710	17.635	2.662	1.00	22.82
1242	ND2	ASN	Â	169	16.286	17.729	1.503	1.00	23.41
1243	N	ILE	A	170	17.107	18.717	3.315	1.00	21.89
1244	CA	ILE	TÂ -	170	16.075	13.671	5.005	1.00	23.82
1245	C	ILE	Â	170	14.784	12.241	5.309	1.00	23.18
1246	ō	ILE	Ā	170	14.532	11.637	5.275	1.00	22.89
1247	СВ	ILE	A	170	16.917	10.695	4.507	1.00	22.87
1248	CGI	ILE	Ā	170	18.322	12.677	6.638	1.00	23.01
1249	CG2	ILE	A	170	17.081	10.591	7.028	1.00	22.40
1250	CDI	ILE	A	170	18.989	12.935	7.825	1.00	23.08
1251	N	GLY	A	171	13.831	12.245	5.971	1.00	22.78
1252	CA	GLY	A	171	12.455	11.775	5.969	1.00	21.80
1253	С	GLY	A	171	11.908	11.490	4.579	1.00	22.83
1254	0	GLY	Α	171	11.509	10.362	4.256	1.00	22.22
1255	N	HIS	Α	172	11.918	12.497	3.702	1.00	23.21
1256	CA	HIS	A	172	11.335	12.357 -	2.369	1.00	22.97
1257	С	HIS	A	172	12.167	11.493	1.464	1.00	23.20
1258	0	HIS	Α	172	11.668	10.866	0.520	1.00	23.49
1259	CB	HIS	A	172	11.036	13.753	1.771	1.00	22.55
1260	CG	HIS	A	172	9.823	14.271	2.506	1.00	22.55
1261	NDI	HIS	Α	172	9.944	15.054	3.631	1.00	23.32
1262	CD2	HIS	A	172	8.513	14.044	2.327	1.00	22.72
1263	CEI	HIS	A	172	8.734	15.323	4.101	1.00	23.47
1264	NE2	HIS	A	172	7.844	14.717	3.329	1.00	23.29
1265	N	ALA	Α	173	13.468	11.384	1.760	1.00	23.72
1266 1267	CA	ALA	Α	173	14.295	10.496	0.929	1.00	23.93
1268	C	ALA	A	173	13.810	9.058	1.148	1.00	23.83
1269	O CB	ALA	A	173	13.592	8.348	0.172	1.00	22.86
1270	N	ALA	A	173	15.756	10.702	1.222	1.00	23.75
1271	CA	ALA	A	174	13.506	8.691	2.390	1.00	23.88
1272	c		A		12.985	7.375	2.714	1.00	24.96
1273	0	ALA ALA	A	174	11.596	7.165	2.100	1.00	26.35
1274	СВ	ALA	A	174	11.326	6.134	1.482	1.00	26.24
1275	N	ARG	Ā	175	12.865	7.184	4.215	1.00	24.24
1276	CA	ARG	Ā	175	9.394	8.179	2.291	1.00	26.16
1277	C	ARG	Ā	175	9.481	7.878	0.245	1.00	25.10
1278	0	ARG	Ā	175	9.021		0.245	1.00	27.12
1279	СВ	ARG	Ā	175	8.673	6.838 9.443	-0.251 2.042	1.00	28.18
1280	CG	ARG	Ā	175	8.348	9.443	3.507	1.00	23.30
1281	CD	ARG	A	175	7.206	8.809	3.977	1.00	23.23
1282	NE	ARG	A	175	6.465	9.357	5.099	1.00	23.38
1283	CZ	ARG	A	175	6.601	8.994	6.376		24.63
1284	NH1	ARG	A	175	7.476	8.054	6.731	1.00	
1285	NH2	ARG	A	175	5.855	9.564	7.315	1.00	24.38
	N	ILE	Ā	176	10.257	8.703	-0.472		23.89
	CA	ILE	Ā	176	10.475	8.452	-1.893	1.00	27.46
	C	ILE	Ā	176	10.815	6.991	-2.141		27.19
	0	ILE	A	176	10.169	6.352	-2.141	1.00	28.06
	CB	ILE	Ā	176	11.568	9.372	-2.460	1.00	29.01
	CGI	īLE	A	176	11.036	10.812	-2.486	1.00	26.47 26.78
	CG2	ILE	A	176	12.020	8.935	-3.838	1.00	24.93
							2.020	1.00	47.73

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1293		ILE	A	176	11.966	11.826	1 -3.111	1100	1	_
1294		ILE	Α	177	11.823		-1.463	1.00	26.83	
1295	CA	ILE	A	177	12.249		-1.652	1.00	28.98	
1296	<u> c </u>	ILE	A	177	11.104		-1.387	1.00	29.0	
1297		ILE	A	177	10.698		-2.290	1.00	29.49	_
1298	CB	ILE	A	177	13.483	4.745	-0.802		30.21	_
1299	CGI	ILE	A	177	14.718	5.428	-1.400	1.00	28.06	
1300	CG2	ILE	A	177	13.712	3.245	-0.714	1.00	27.28	
1301	CDI	ILE	A	177	15.924	5.483	-0.490	1.00	28.49	_
1302	N	ALA	A	178	10.479	4.215	-0.232	1.00	26.54	_
1303	CA	ALA	A	178	9.318	3.437	0.141	1.00	29.79	_
1304	_ C	ALA	A	178	8.251	3.453	-0.942	1.00	30.54	_
1305	0	ALA	A	178	7.640	2.422	-1.259	1.00	33.08	_
1306	CB	ALA	A	178	8.744	3.986		1.00	35.55	_
1307	N	TYR	A	179	7.975	4.621	1.448	1.00	28.37	_
1308	CA	TYR	A	179	6.967	4.771	-1.514	1.00	33.83	_
1309	С	TYR	Α	179	7.321	3.984	-2.546	1.00	33.95	
1310	0	TYR	A	179	6.399	3.530	-3.798	1.00	33.95	
1311	CB	TYR	A	179	6.779	6.254	-4.495	1.00	35.65	
1312	CG	TYR	Α	179	5.600	6.559	-2.886	1.00	34.35	
1313	CDI	TYR	A	179	4.368		-3.781	1.00	34.82	
1314	CD2	TYR	A	179	5.715	6.895	-3.228	1.00	35.00	
1315	CEI	TYR	A	179	3.283	6.518	-5.167	1.00	34.57	
1316	CE2	TYR	A	179	4.636	7.174 6.794	-4.034	1.00	35.41	
1317	CZ	TYR	A	179	3.423		-5.976	1.00	34.96	
1318	ОН	TYR	A	179	2.338	7.119	-5.404	1.00	35.48	_
1319	N	GLY	A	180	8.590	7.399	-6.205	1.00	36.21	
1320	CA	GLY	A	180	8.991	3.866	-4.149	1.00	33.30	
1321	С	GLY	A	180	9.629	3.165	-5.356	1.00	33.89	
1322	0	GLY	A	180	10.091	4.044	-6.418	1.00	34.58	_
1323	N	ASP	A	181	9.796	3.541	-7.461	1.00	34.05	
1324	CA	ASP	A	181	10.383	5.342	-6.136	1.00	34.25	
1325	С	ASP	A	181		6.259	-7.105	1.00	34.14	
1326	0	ASP	A	181	11.898	6.108	-7.189	1.00	34.08	
1327	СВ	ASP	A	181	10.023	6.521	-8.164	1.00	32.76	_
1328	CG	ASP	A	181		7.712	-6.773	1.00	34.55	╝
1329	ODI	ASP	A	181	8.564	8.032	-7.022	1.00	35.35	
1330	OD2	ASP	Â	181	7.996	8.921	-6.347	1.00	35.15	\Box
1331	N	ALA	A	182		7.377	-7.915	1.00	36.69	┚
1332	. CA	ALA	A	182	13.926	5.534	-6.145	1.00	34.99	┚
1333	C	ALA	A	182		5.339	-6.075	1.00	35.64	J
1334	0	ALA	A	182	14.284	4.134	-5.210	1.00	36.12	
1335	СВ	ALA	A	182	13.482	3.675	-4.395	1.00	36.49	J
1336	N	ASP	A	183	14.594	6.592	-5.527	1.00	34.86	╝
1337	CA	ASP	A	183	15.496	3.630	-5.413	1.00	37.16	╛
1338	C	ASP	Ā	183	15.993	2.489	-4.644	1.00	37.73	┚
1339	0	ASP	Ā	183	17.068	2.946	-3.662	1.00	37.03	╛
1340	СВ	ASP	A	183	16.558	2.401	-2.575	1.00	37.13	
1341	CG	ASP	A	183	15.452	1.416	-5.579	1.00	38.47	_[
1342	ODI	ASP	A	183	15.650	0.660	-6.299	1.00	39.28	1
1343	OD2	ASP	A	183	14.382	0.298	-7.477	1.00	39.31	4
1344	N	VAL	A	184	17.870	3.907	-5.672	1.00	39.27	1
1345	CA	VAL	A	184	18.906		4.112	1.00	35.93	1
1346	С	VAL	A	184	18.726	4.529	-3.313	1.00	34.94	1
1347	0	VAL	A	184	18.388	6.051	-3.354	1.00	34.49	1
1348	СВ	VAL	A	184		6.611	4.397	1.00	34.37	1
1349	CGI	VAL	A	184	20.329	4.191	-3.783	1.00	34.92	1
1350	CG2	VAL	A	184	20.598	4.899	-2.904	1.00	34.98	1
1351	N	MET	A	185	18.909	2.699	-3.774	1.00	34.24	1
1352	CA	MET	Ā	185		6.700	-2.208	1.00	33.85	1
1353	С	MET	Ā	185	18.808	8.150	-2.102	1.00	32.05	1
1354	0	MET	Ā	185		8.691	-1.280	1.00	30.49	
1355	СВ	MET	Ā	185	20.234	8.138	-0.210	1.00	31.31	
1356	CG	MET	Ā	185	17.503	8.560	-1.421	1.00	32.72	
1357	SD	MET	Â	185	16.248	8.454	-2.273	1.00	32.82	1
1358	CE	MET	A	185	16.312	9.494	-3.751	1.00	32.53	1
1359	N	VAL	A	186	15.762	11.052	-3.035	1.00	33.06	1
1360	CA	VAL	A	186	20.675	9.701	-1.759	1.00	29.07	
			^	100	21.696	10.370	-0.952	1.00	27.75	

				07	1110			,	,
1361	С	VAL	A	136	20.996	11.510	-0.206	1 1.00	26.95
1362	0	VAL	A	186	20.426	12.381	-0.880	1.00	28.34
		VAL	Ā	186	22.846	10.975	-1.755	1.00	27.97
1363	СВ				24.006	11.307	-0.815	1.00	27.63
1364	CGI	VAL	Α	186	23.324	10.065	-2.869	1.00	28.61
1365	CG2	VAL	Α	186				1.00	24.74
1366	Z	ALA	Α	187	20.997	11.526	1.114		24.07
1367	CA	ALA	Α	187	20.259	12.588	1.793	1.00	
1368	C	ALA	A	187	21.001	13.252	2.926	1.00	24.02
1369	0	ALA	A	187	21.836	12.664	3.607	1.00	24.74
1370	СВ	ALA	A	187	18.942	12.013	2.304	1.00	23.14
			Ā	188	20.682	14.533	3.152	1.00	23.56
1371	N	GLY			21.322	15.219	4.282	1.00	22.93
1372	CA	GLY	Α	188			4.107	1.00	21.97
1373	<u> </u>	GLY	A	188	21.198	16.719			21.88
1374	Ō	GLY	Α	188	20.352	17.169	3.340	1.00	
1375	N	GLY	Α	189	22.084	17.456	4.773	1.00	21.27
1376	CA	GLY	A	189	22.026	18.915	4.623	1.00	20.91
1377	C	GLY	A	189	23.423	19.489	4.781	1.00	20.13
				189	24.305	18.799	5.280	1.00	20.88
1378	0	GLY	A		23.609	20.703	4.295	1.00	19.89
1379	N	ALA	Α	190		21.374	4.431	1.00	19.71
1380	CA	ALA	Α	190	24.906			1.00	19.51
1381	С	ALA	Α	190	24.625	22.835	4.771		
1382	0	ALA	A	190	23.617	23.366	4.289	1.00	19.85
1383	СВ	ALA	A	190	25.739	21.242	3.172	1.00	19.10
1384	N	GLU	A	191	25.446	23.431	5.617	1.00	19.12
		GLU	A	191	25.249	24.825	5.981	1.00	19.12
1385	CA		A	191	26.585	25.504	6.260	1.00	18.78
1386	C	GLU			27.522	24.903	6.772	1.00	18.20
1387	0	GLU	A	191			7.186	1.00	18.97
1388	CB	GLU	A	191	24.313	24.973			20.04
1389	CG .	GLU	A	191	23.760	26.391	7.329	1.00	
1390	CD	GLU	A	191	22.420	26.607	6.662	1.00	20.10
1391	OE1	GLU	A	191	22.312	27.479	5.775	1.00	20.35
1392	OE2	GLU	A	191	21.423	25.921	6.984	1.00	19.18
		LYS	A	192	26.650	26.784	5.942	1.00	18.47
1393	N			192	27.831	27.586	6.205	1.00	18.91
1394	CA	LYS	A		27.392	29.047	6.334	1.00	19.50
1395		LYS	<u> </u>	192			5.424	1.00	18.72
1396	0	LYS	A	192	27.558	29.853			20.21
1397	CB	LYS	A	192	28.882	27.398	5.129	1.00	
1398	CG.	LYS	A	192	30.311	27.620	5.611	1.00	21.28
1399	CD	LYS	A	192	30.626	29.114	5.727	1.00	20.99
1400	CE	LYS	Α	192	32.101	29.304	6.035	1.00	21.43
	NZ	LYS	A	192	32.369	30.319	7.082	1.00	20.87
1401			A	193	26.769	29.332	7.486	1.00	19.33
1402	N	ALA		193	26.218	30.651	7.745	1.00	18.76
1403	CA	ALA	Α			31.471	8.633	1.00	20.38
1404	C	ALA	Α	193	27.125		8.971	1.00	22.59
1405	0	ALA	Α	193	26.765	32.618			
1406	СВ	ALA	Α	193	24.820	30.556	8.351	1.00	16.60
1407	N	SER	A	194	28.319	31.002	8.993	1.00	20.01
1408	CA	SER	A	194	29.212	31.816	9.822	1.00	19.73
		SER	A	194	29.827	32.946	9.010	1.00	19.70
1409	<u>C</u>			194	31.018	32.969	8.692	1.00	19.94
1410	0	SER			30.324	30.953	10.417	1.00	20.42
1411	CB	SER	A	194			9.359	1.00	20.95
1412	OG	SER	A	194	31.139	30.457		1.00	19.16
1413	N	THR	Α	195	29.005	33.897	8.600		
1414	CA	THR	A	195	29.367	35.036	7.795	1.00	19.39
1415	C	THR	Α	195	28.812	36.284	8.470	1.00	19.65
1416	10	THR	A	195	27.838	36.181	9.227	1.00	21.37
		THR	A	195	28.757	34.967	6.382	1.00	20.32
1417	CB			195	27.366	35.354	6.457	1.00	21.29
1418	OGI	THR	A		28.843	33.585	5.772	1.00	19.40
1419	CG2	THR	<u> </u>	195				1.00	19.54
1420	N	PRO	A	196	29.327	37.442	8.125		
1421	CA	PRO	A	196	28.846	38.693	8.699	1.00	19.97
1422	c	PRO	A	196	27.341	38.754	8.825	1.00	19.83
		PRO	A	196	26.816	38.911	9.924	1.00	20.28
	0	PRO	A	196	29.417	39.747	7.753	1.00	19.47
1423			I A	1 170			7.224	1.00	17.90
1423 1424	СВ			106	1 30 666				
1423 1424 1425	CG	PRO	A	196	30.666	39.142		_	
1423 1424			A	196	30.447	37.658	7.185	1.00	18.39
1423 1424 1425	CG	PRO	A					_	

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1429	С	LEU	A	197	24.471	37.549	1 0 501		
1430	0	LEU	A	197	23.391	37.781	9.057	1.00	22.25
1431	СВ	LEU	' A	197	24.696	38.550	6.235	1.00	22.33
1432	CG	LEU	A	197	23.530	39.417	5.781	1.00	20.00
1433	CD1	LEU	A	197	23.781	40.878	6.083	1.00	19.91
1434	CD2	LEU	A	197	23.283	39.197	4.290	1.00	19.18
1436	CA	GLY	A	198	25.069	36.366	8.579	1.00	22.88
1437	C	GLY	A	198	24.470	35.281	9.356	1.00	23.85
1438	0	GLY	A	198	24.739	35.506	10.839	1.00	26.11
1439	N	VAL	TÂ.	199	23.874	35.251	11.681	1.00	26.78
1440	CA	VAL	A	199	25.956 26.250	35.969	11.160	1.00	26.93
1441	С	VAL	A	199	25.514	36.222 37.487	12.587	1.00	27.85
1442	0	VAL	A	199	24.683	37.455	13.008	1.00	27.33
1443	CB	VAL	A	199	27.746	36.267	12.877	1.00	27.42
1444	CGI	VAL	Α	199	28.068	36.897	14.220	1.00	28.42
1445	CG2	VAL	A	199	28.327	34.844	12.826	1.00	27.96
1446	N	GLY	A	200	25.717	38.569	12.268	1.00	25.86
1447	CA	GLY	A	200	24.993	39.806	12.549	1.00	25.88
1448	- 	GLY	<u> </u>	200	23.493	39.535	12.646	1.00	25.97
1449	O	GLY	A	200	22.870	39.851	13.652	1.00	26.80
1451	CA	GLY	A	201	22.885	38.974	11.615	1.00	. 25.48
1452	c	GLY	A	201	21.478	38.693	11.546	1.00	25.31
1453	10	GLY	TÂ.	201	20.889	37.981	12.738	1.00	25.85
1454	N	PHE	A	202	19.849 21.504	38.418	13.259	1.00	25.85
1455	CA	PHE	A	202	20.975	36.891 36.198	13.204	1.00	25.57
1456	С	PHE	A	202	21.237	37.041	14.378	1.00	26.27
1457	0	PHE	Α	202	20.509	36.959	16.608	1.00	27.19
1458	СВ	PHE	A	202	21.580	34.811	14.551	1.00	28.35 26.19
1459	CG	PHE	Α	202	20.943	33.711	13.752	1.00	25.12
1460	CDI	PHE	_ A	202	21.643	33.073	12.738	1.00	24.21
1461	CD2	PHE	- A	202	19.632	33.332	13.996	1.00	24.42
1463	CE1	PHE	- A	202	21.051	32.076	11.991	1.00	23.44
1464	CZ	PHE	A	202	19.038	32.320	13.267	1.00	24.39
1465	N	GLY	Â	203	19.752	31.695	12.257	1.00	23.79
1466	CA	GLY	A	203	22.305	37.834	15.611	1.00	28.07
1467	С	GLY	A	203	21.489	38.752 39.776	16.703	1.00	28.36
1468	0	GLY	A	203	20.966	40.052	16.825	1.00	29.38
1469	N	ALA	Α	204	21.089	40.312	15.677	1.00	28.66
1470	CA	ALA	A	204	20.027	41.289	15.581	1.00	28.43
1471	C	ALA	A	204	18.768	40.815	16.294	1.00	28.66
1472	0	ALA	Α	204	18.131	41.610	16.982	1.00	29.26
1474	CB N	ALA	A	204	19.743	41.609	14.117	1.00	28.52
1475	CA	ALA	A	205	18.435	39.539	16.198	1.00	29.22
1476	c	ALA	A	205	17.292	38.917	16.821	1.00	29.54
1477	ō	ALA	A	205	17.532	38.582	18.293	1.00	30.76
1478	СВ	ALA	A	205	16.930	38.153 37.619	18.987	1.00	31.16
1479	N	ARG	Α	206	18.779	38.677	16.106	1.00	28.27
1480	CA	ARG	Α	206	19.159	38.399	20.110	1.00	31.45
1481	С	ARG	Α	206	19.060	36.919	20.439	1.00	32.08
1482	0	ARG	Α	206	18.810	36.532	21.575	1.00	32.74
1483	CB	ARG	A	206	18.299	39.212	21.090	1.00	33.69
1485	CG	ARG	A	206	18.709	40.680	21.147	1.00	35.43
1486	NE CD	ARG	A	206	18.168	41.326	22.416	1.00	37.32
1487	CZ	ARG	A	206	18.714	40.674	23.601	1.00	38.75
1488	NHI	ARG	A	206	18.015	40.193	24.619	1.00	39.28
1489	NH2	ARG	A	206	18.676	39.617	25.623	1.00	40.09
1490	N	ALA	Ā	207	16.692	40.273	24.653	1.00	39.00
1491	CA	ALA	A	207	19.331	36.086 34.651	19.459	1.00	31.89
1492	C	ALA	A	207	20.506	33.926	19.541	1.00	30.97
1493	0	ALA	Α	207	20.485	32.707	19.828 20.028	1.00	29.87
1494	СВ	ALA	Α	207	18.657	34.153	18.183	1.00	30.21 30.74
1495	N	LEU	A	208	21.630	34.631	19.784	1.00	28.48
1496	CA	LEU	Α	208	22.909	33.963	19.961	1.00	29.11

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1497	Tc	LEU	A	208	23.516	34.215	21.336	1.00	29.38
1498	0	LEU	A	208	23.357	35.310	21.857	1.00	29.54
1499	СВ	LEU	A	208	23.948	34,424	18.927	1.00	28.64
1500	CG	LEU	A	208	23.703	33.986	17.481	1.00	28.52
1501	CDI	LEU	A	208	24.704	34.659	16.558	1.00	27.66
1502	CD2	LEU	A	208	23.763	32.470	17.372	1.00	28.39
1503	N	SER	A	209	24.285	33.229	21.813		
1504	CA							1.00	28.67
		SER	A	209	24.999	33.395	23.072	1.00	27.73
1505	c	SER	A	209	26.090	34.453	22.903	1.00	27.76
1506	0	SER	Α	209	26.493	34.797	21.800	1.00	26.99
1507	CB	SER	A	209	25.577	32.082	23.574	1.00	27.07
1508	OG	SER	Α	209	26.481	32.291	24.653	1.00	26.06
1509	N_	THR	A	210	26.482	35.063	24.008	1.00	29.62
1510	CA	THR	A	210	27.378	36.244	23.938	1.00	31.15
1511	С	THR	A	210	28.562	36.040	24.849	1.00	31.71
1512	0	THR	A	210	29.417	36.890	25.097	1.00	30.55
1513	СВ	THR	A	210	26.495	37.458	24.255	1.00	31.98
1514	OGI	THR	A	210	26.238	38.187	23.037	1.00	32.30
1515	CG2	THR	A	210	27.039	38.393	25.302	1.00	32.74
1516	N N	ARG	A	211	28.724	34.788	25.302	1.00	
1517	CA		+	211	29.800	34.788			32.86
	+	ARG	A		+		26.204	1.00	34.98
1518	 ç	ARG	A	211	31.142	34.331	25.505	1.00	35.34
1519	0	ARG	A	211	31.736	33.260	25.391	1.00	35.29
1520	CB	ARG	I.A	211	29.440	33.084	26.873	1.00	36.96
1521	CG	ARG	Α	211	30.276	32.715	28.078	1.00	38.63
1522	CD	ARG	Α	211	29.809	31.412	28.695	1.00	40.89
1523	NE	ARG	Α	211	28.812	31.617	29.748	1.00	43.18
1524	CZ	ARG	Α	211	27.497	31.538	29.556	1.00	44.37
1525	NHI	ARG	Α	211	27.003	31.259	28.347	1.00	44.55
1526	NH2	ARG	Ā	211	26.676	31.740	30.581	1.00	44.44
1527	N	ASN	Α	212	31.697	35.456	25.076	1.00	36.69
1528	CA	ASN	Α	212	32.967	35.519	24.386	1.00	38.57
1529	С	ASN	A	212	34.172	35.285	25.283	1.00	40.78
1530	Ō	ASN	A	212	35.272	35.059	24.758	1.00	41.25
1531	СВ	ASN	A	212	33.125	36.873	23.686	1.00	38.25
1532	CG	ASN	Ä	212	31.919	37.286	22.873	1.00	38.78
1533	ODI	ASN	Ā	212	31.326	36.500	22.126	1.00	38.93
1534	ND2		Â	212	31.525	38.552	23.005	1.00	
		ASN			+				38.26
1535	N	ASP	A	213	34.018	35.328	26.601	1.00	43.10
1536	CA	ASP	A	213	35.130	35.122	27.525	1.00	45.40
1537	C	ASP	A	213	35.433	33.638	27.704	1.00	45.34
1538	0	ASP	A	213	36.540	33.257	28.080	1.00	44.99
1539	CB	ASP	Α	213	34.896	35.821	28.858	1.00	47.21
1540	CG	ASP	Α	213	33.652	35.405	29.603	1.00	49.21
1541	ODI	ASP	A	213	32.526	35.562	29.072	1.00	50.18
1542	OD2	ASP	A	213	33.789	34.906	30.749	1.00	50.24
1543	N	ASN	Α	214	34.465	32.787	27.385	1.00	45.48
1544	CA	ASN	Α	214	34.649	31.342	27.426	1.00	45.22
1545	С	ASN	Α	214	33.840	30.670	26.316	1.00	43.77
1546	0	ASN	A	214	32.803	30.045	26.541	1.00	43.50
1547	СВ	ASN	A	214	34.289	30.771	28.789	1.00	46.06
1548	CG	ASN	A	214	34.875	29.392	29.028	1.00	46.69
1549	ODI	ASN	A	214	35.114	29.005	30.174	1.00	47.37
1550	ND2	ASN	A	214	35.114	28.633	27.966	1.00	46.96
1551	N	PRO	A	215	34.345	30.763	25.089	1.00	42.47
1552	CA	PRO	Ā	215	33.653	30.703	23.911	1.00	41.85
	C					28.836			
1553		PRO	<u> </u>	215	33.196		23.992	1.00	40.97
1554	0	PRO	Α	215	32.078	28.509	23.586	1.00	40.92
1555	CB	PRO	Α	215	34.665	30.467	22.785	1.00	41.51
1556	CG	PRO	Α	215	35.519	31.597	23.234	1.00	41.27
1557	CD	PRO	Α	215	35.569	31.517	24.730	1.00	41.71
1558	N	GLN	A	216	34.006	27.940	24.542	1.00	40.36
1559	CA	GLN	Α	216	33.689	26.536	24.662	1.00	40.03
1560	С	GLN	A	216	32.649	26.243	25.736	1.00	38.52
1561	0	GLN	A	216	32.207	25.093	25.842	1.00	38.43
1562	СВ	GLN	Α	216	34.948	25.709	24.953	1.00	42.11
1563	CG	GLN	A	216	36.081	25.871	23.963	1.00	44.52
1564	CD	GLN	A	216	36.980	27.057	24.241	1.00	46.34

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1565	OEI	GLN	A	216	36.910	27.707	25.293	1.00	47.64
1566	NE2	GLN	A	216	37.842	27.386	23.279	1.00	
1567	N	ALA	A	217	32.268	27.225	26.536	1.00	46.74
1568	CA	ALA	· A	217	31.303	27.017	27.608		36.20
1569	С	ALA	A	217	29.987	27.715		1.00	34.50
1570	0	ALA	A	217	28.997		27.287	1.00	33.15
1571	CB	ALA	TA	217		27.578	28.001	1.00	32.25
1572	N	ALA			31.880	27.557	28.914	1.00	34.14
1573	CA		A	218	29.996	28.465	26.196	1.00	32.07
		ALA	_ A_	218	28.856	29.223	25.721	1.00	31.43
1574	<u> c</u>	ALA	A	218	27.613	28.361	25.529	1.00	31.15
1575	- 0	ALA	A	218	26.539	28.709	26.018	1.00	31.19
1576	CB.	ALA	_ A	218	29.199	29.923	24.407	1.00	30.76
1577	_ N	SER	A	219	27.771	27.274	24.795		
1578	CA	SER	A	219	26.679	26.362	24.487	1.00	30.96
1579	С	SER	A	219	26.385	25.476		1.00	31.23
1580	0	SER	A	219			25.684	1.00	31.50
1581	СВ	SER	A	219	27.187	24.600	26.008	1.00	30.63
1582	OG				27.062	25.535	23.257	1.00	31.35
1583	N	SER	<u> </u>	219	25.973	24.795	22.745	1.00	31.74
		ARG	A	220	25.240	25.687	26.343	1.00	32.52
1584	CA	ARG	A	220	24.930	24.859	27.519	1.00	33.84
1585	C	ARG	A	220	23.463	24.496	27.638	1.00	34.32
1586	0	ARG	Α	220	22.727	24.975	28.505	1.00	34.48
1587	CB	ARG	Α	220	25.426	25.582	28.776	1.00	
1588	CG	ARG	A	220	25.147	27.069	28.796		33.63
1589	CD	ARG	A	220	25.618	27.735		1.00	34.24
1590	NE	ARG	A	220	27.023	27.517	30.070	1.00	35.88
1591	CZ	ARG	A	220			30.346	1.00	37.22
1592	NHI	ARG	Â		27.541	26.815	31.336	1.00	37.40
1593	NH2			220	26.758	26.220	32.219	1.00	37.56
1594.		ARG	_ A	220	28.863	26.708	31.450	1.00	38.33
	N N	PRO	_ A	221	22.988	23.595	26.782	1.00	34.72
1595	CA	PRO	A	221	21.610	23.177	26.771	1.00	35.12
1596	C	PRO	Α	221	21.070	22.782	28.127	1.00	36.33
1597	0	PRO	A	221	21.575	21.905	28.822	1.00	36.73
1598	CB	PRO	A	221	21.556	22.019	25.790	1.00	34.23
1599	CG	PRO	A	221	22.935	21.743	25.355		
1600	CD	PRO	A	221	23.771	22.941		1.00	34.39
1601	N	TRP	A	222	19.982		25.702	1.00	34.79
1602	CA	TRP	Ā	222		23.430	28.537	1.00	37.81
1603	C	TRP	$\overline{}$		19.253	23.204	29.764	1.00	38.35
1604	0		A	222	19.870	23.783	31.021	1.00	40.00
1605	+	TRP	A	222	19.244	23.803	32.087	1.00	40.39
	CB	TRP	A	222	18.989	21.704	29.960	1.00	37.21
1606	CG	TRP .	A	222	18.017	21.170	28.940	1.00	36.16
1607	CDI	TRP	I A	222	16.705	21.496	28.811	1.00	35.54
1608	CD2	TRP	A	222	18.304	20.213	27.913	1.00	35.39
1609	NEI	TRP	A	222	16.151	20.796	27.769	1.00	
1610	CE2	TRP	A	222	17.111	20.004	27.203		35.19
1611	CE3	TRP	Α	222	19.453	19.511		1.00	35.06
1612	CZ2	TRP	A	222	17.030		27.533	1.00	35.46
1613	CZ3	TRP	Ā	222		19.127	26.123	1.00	35.14
1614	CH2	TRP	Â	222	19.370	18.638	26.460	1.00	35.39
1615		1			18.165	18.456	25.770	1.00	35.07
1616	CA.	ASP	I.A.	223	21.097	24.269	30.942	1.00	41.44
	CA	ASP	A	223	21.747	24.939	32.048	1.00	42.07
1617	C	ASP	A	223	21.001	26.228	32.378	1.00	43.35
1618	0	ASP	A	223	20.401	26.868	31.510	1.00	42.75
1619	CB	ASP	A	223	23.201	25.239	31.680	1.00	41.91
1620	CG	ASP	Α	223	23.978	25.779	32.868		
1621	ODI	ASP	A	223	24.089	27.022	32.965	1.00	42.02
1622	OD2	ASP	A	223	24.459			1.00	41.30
1623	N	LYS	A	224		24.948	33.668	00.1	41.89
1624	CA	LYS			21.083	26.633	33.640	1.00	44.97
1625	C		A	224	20.452	27.832	34.149	1.00	45.85
		LYS	A	224	21.037	29.102	33.551	1.00	45.90
1626	0	LYS	Α	224	20.369	30.142	33.550	1.00	45.61
1627	CB	LYS	Α	224	20.612	27.872	35.684	1.00	47.34
1628	CG	LYS	Α	224	22.069	28.062	36.100	1.00	49.04
1629	CD	LYS	A	224	22.200	28.799	37.419	1.00	
1630	CE	LYS	A	224	22.329	30.304	37.224		50.57
1631	NZ	LYS	Ā	224	23.739	30.756		1.00	51.48
1632	N	GLU	A	225			37.419	1.00	52.02
		 1	-:-	رعب	22.281	29.047	33.071	1.00	45.79

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1633	CA	GLU	A	225	22.912	30.222	32.498	1.00	45.61
1634	C	GLU	A	225	22.934	30.253	30.980	1.00	43.95
1635	Ō	GLU	Α	225	23.804	30.950	30.441	1.00	43.88
1636	СВ	GLU	A	225	24.348	30.358	33.009	1.00	47.52
1637	CG	GLU	A	225	24:465	30.295	34.527	1.00	49.63
1638	CD	GLU	A	225	25.931	30.264	34.930	1.00	51.27
1639	OEI	GLU	. A	225	26.658	31.171	34.461	1.00	52.70
1640	OE2	GLU	A	225	26.323	29.336	35.663	1.00	52.08
1641	N	ARG	A	226	22.030	29.558	30.316	1.00	42.31
1642	CA	ARG	A	226	21.854	29.621	28.870	1.00	40.38
1643	c	ARG	A	226	21.618	31.059	28.409	1.00	38.31
1644	ō	ARG	A	226	20.851	31.766	29.076	1.00	38.79
1645	СВ	ARG	A	226	20.595	28.839	28.463	1.00	41.11
1646	CG	ARG	A	226	20.733	27.358	28.276	1.00	42.80
1647	CD	ARG	A	226	19.386	26.645	28.252	1.00	44.07
1648	NE	ARG	A	226	18.414	27.281	29.116	1.00	46.50
1649	CZ	ARG	A	226	17.366	26.721	29.696	1.00	47.73
	NHI	ARG	Ā	226	17.078	25.440	29.522	1.00	48.79
1650				226	16.571	27.446	30.475	1.00	48.31
1651	NH2	ARG	A	227	22.171	31.480	27.286	1.00	36.03
1652	N CA	ASP	A	227	21.891	32.830	26.791	1.00	33.63
1653	CA	ASP	A	227	21.674	32.838	25.285	1.00	32.31
1654	<u>c</u>	ASP	A	227	21.554	33.919	24.700	1.00	32.59
1655	0	ASP	<u> </u>	227	22.967	33.825	27.192	1.00	32.84
1656	CB	ASP	A	227		33.499	26.637	1.00	33.33
1657	CG	ASP	A		24.334		26.529	1.00	34.69
1658	ODI	ASP	A	227	24.627 25.120	32.286 34.414	26.329	1.00	32.44
1659	OD2	ASP	A	227			24.654	1.00	30.62
1660	N	GLY	Α	228	21.550	31.672	23.188	1.00	28.87
1661	CA	GLY	A	228	21.366	31.677		1.00	27.72
1662	Ç	GLY	A	228	22.125	30.526	22.548	1.00	28.88
1663	0	GLY	Α	228	23.023	29.955	23.172	1.00	25.72
1664	N	PHE	A	229	21.754	30.147	21.330		22.79
1665	CA	PHE	Α	229	22.412	29.027	20.666	1.00	22.85
1666	C	PHE	A	229	23.772	29.488	20.159	1.00	
1667	0	PHE	Α	229	24.077	30.672	20.162	1.00	21.95
1668	CB	PHE	A	229	21.550	28.413	19.591	1.00	21.43
1669	CG	PHE	Α	229	21.327	29.142	18.316	1.00	20.46
1670	CDI ·	PHE	A	229	22.236	29.069	17.275	1.00	19.91
1671	CD2	PHE	Α	229	20.191	29.920	18.131	1.00	20.66
1672	CE1	PHE	Α	229	22.025	29.759	16.087	1.00	19.15
1673	CE2	PHE	Α	229	19.969	30.605	16.944	1.00	19.34
1674	CZ	PHE	Α	229	20.894	30.517	15.928	1.00	18.75
1675	N	VAL	Α	230	24.597	28.526	19.795	1.00	24.11
1676	CA	VAL	Α	230	25.926	28.768	19.252	1.00	24.59
1677	С	VAL	Α	230	25.972	28.253	17.810	1.00	24.91
1678	0	VAL	A	230	25.540	27.150	17.497	1.00	23.86
1679	CB	VAL	Α	230	27.024	28.118	20.106	1.00	24.60
1680	CG1	VAL	Α	230	28.392	28.206	19.448	1.00	23.60
1681	CG2	VAL	Α	230	27.076	28.781	21.486	1.00	23.95
1682	N	LEU	Α	231	26.347	29.141	16.910	1.00	26.19
1683	CA	LEU	Α	231	26.347	28.898	15.471	1.00	27.19
1684	С	LEU	Α	231	27.458	27.932	15.080	1.00	27.61
1685	0	LEU	Α	231	28.575	28.038	15.608	1.00	27.83
1686	СВ	LEU	A	231	26.532	30.244	14.786	1.00	27.96
1687	CG	LEU	Α	231	26.207	30.468	13.329	1.00	29.21
1688	CDI	LEU	Α	231	25.563	29.269	12.659	1.00	29.75
1689	CD2	LEU	A	231	25.315	31.702	13.176	1.00	29.24
1690	N	GLY	Α	232	27.171	27.010	14.159	1.00	26.20
1691	CA	GLY	Α	232	28.192	26.067	13.714	1.00	24.72
1692	c	GLY	Α	232	28.023	25.702	12.248	1.00	23.99
1693	0	GLY	Α	232	26.901	25.451	11.800	1.00	24.18
1694	N	ASP	Α	233	29.117	25.550	11.512	1.00	23.28
1695	CA	ASP	A	233	29.061	25.134	10.117	1.00	22.60
1696	C	ASP	A	233	29.340	23.637	9.959	1.00	21.54
1697	0	ASP	A	233	29.988	23.027	10.810	1.00	20.87
1698	СВ	ASP	A	233	30.079	25.883	9.261	1.00	23.15
1699	CG	ASP	A	233	30.103	27.370	9.485	1.00	24.40
1700	ODI	ASP	A	233	29.054	27.994	9.749	1.00	24.44
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170					74	///0		P	CT/US00/	10
170				233	31.21	6 27.933	9 398	1.00	1 26 06	_
170		GLY		234	28.91			1.00		_
170		GLY GLY		234	29.210			1.00		_
170		GLY		234	28.25			1.00		_
1700		ALA		234	27.39		- +	1.00		_
1707	7 CA	ALA		235	28.367			1.00	23.04	_
1708	3 C	ALA		235	27.488 27.550			1.00	24.26	_
1709	0	ALA		235	28.601		7.013	1.00	25.10	
1710		ALA		235	27.839		7.413	1.00	25.69	
1711		GLY		236	26.406		5.141	1.00	24.12	_
1712		GLY	A	236	26.263		7.203	1.00	25.31	
1713		GLY	A	236	25.401	14.764	6.106	1.00	25.96	_
1714		GLY	A	236	24.292	15.232	5.828	1.00	27.84	_
1715		MET	A	237	25.956	13.732	5.480	1.00	28.18	_
1717	CA C	MET	A	237	25.264	13.032	4.412	1.00	28.58	_
1718	0	MET MET	A	237	25.021	11.579	4.791	1.00	29.18	_
1719	CB	MET	A	237	25.840	10.946	5.457	1.00	30.25	_
1720	CG	MET	A	237	26.058	13.121	3.111	1.00	29.09	_
1721	SD	MET	Â	237	26.241	14.540	2.584	1.00	30.84	_
1722	CE	MET	A	237	24.689	15.275	2.005	1.00	31.49	_
1723	N	LEU	TA A	238	23.983	13.854	1.197	1.00	32.58	_
1724	CA	LEU	A	238	23.861	11.059	4.432	1.00	29.03	_
1725	С	LEU	A	238	23.154	9.697 9.058	4.647	1.00	28.93	
1726	0	LEU	A	238	22.641	9.736	3.274	1.00	30.08	_
1727	СВ	LEU	A	238	22.174	9.573	2.395 5.445	1.00	30.53	_
1728	CG	LEU	A	238	21.953	9.963	6.879	1.00	29.18	_
1729	CDI	LEU	A	238	21.343	8.806	7.674	1.00	28.28	_
1730 1731	CD2	LEU	_ A	238	23.203	10.416	7.588	1.00	28.10	_
1732	CA	VAL	A	239	23.389	7.769	3.139	1.00	28.92 31.20	_
1733	C	VAL	- A	239	22.950	7.027	1.966	1.00	31.08	ᅥ
1734	0	VAL	A	239	21.801	6.122	2.442	1.00	31.88	۲
1735	СВ	VAL	A	239	21.972	5.326	3.365	1.00	31.48	┪
1736	CGI	VAL	A	239	24.047	6.189	1.317	1.00	30.98	7
1737	CG2	VAL	Ā	239	23.493	5.297	0.207	1.00	30.65	٦
1738	N	LEU	T A	240	25.150	7.069	0.756	1.00	30.59	J
1739	CA	LEU	A	240	19.465	5.539	1.910	1.00	32.81]
1740	С	LEU	Α	240	19.197	4.602	1.091	1.00	34.06	1
1741	0	LEU	Α	240	19.377	5.025	-0.056	1.00	35.24	4
1742	CB	LEU	Α	240	18.233	6.367	2.568	1.00	35.94	4
1743 1744	CG	LEU	Α	240	18.327	7.391	3.694	1.00	34.52 34.89	┨
1745	CD1	LEU	Α	240	17.392	8.562	3.424	1.00	35.01	┨
1746	N N	LEU	A	240	18.007	6.741	5.029	1.00	34.67	┨
1747	CA	GLU	A	241	18.858	3.355	1.376	1.00	36.34	1
1748	Ĉ	GLU	 ^ -	241	18.549	2.426	0.288	1.00	37.40	1
1749	ō	GLU	TÂ -	241	17.604	1.337	0.790	1.00	38.22	1
1750	СВ	GLU	A	241	17.459	1.156	1.997	1.00	37.42	
1751	CG	GLU	A	241	20.414	1.860	-0.376	1.00	37.02	ĺ
1752	CD	GLU	A	241	21.624	0.626	0.198	1.00	36.23	
1753	OEi	GLU	Α	241	22.743	0.616	-0.629 -0.277	1.00	36.50	
1754	OE2	GLU	A	241	21.457	-0.538	-1.624	1.00	36.26	
1755	N	GLU	Α	242	16.839	0.808	-0.161	1.00	36.05	
1756	CA	GLU	A	242	15.825	-0.196	0.151	1.00	39.24 40.59	
1757	C	GLU	Α	242	16.502	-1.471	0.625	1.00	42.13	
1758	O	GLU	Α	242	17.499	-1.913	0.049	1.00	42.65	
1759 1760	CB CG	GLU	A	242	14.947	-0.425	-1.073	1.00	40.67	
1761	CD	GLU	Α	242	13.767	-1.365	-0.852	1.00	40.14	
1762	OEI	GLU GLU	A	242	14.158	-2.796	-1.182	1.00	40.03	
763	OE2	GLU	A	242	15.061	-2.964	-2.033	1.00	40.30	
764	N	TYR	Ā	242	13.583	-3.715	-0.577	1.00	40.12	
765	CA	TYR	A	243 243	15.985	-2.050	1.688	1.00	44.48	
766	c	TYR	A	243	16.528	-3.249	2.295	1.00	47.55	
767	0	TYR	Ā	243	16.969	<u>-4.314</u>	1.312	1.00	49.06	
768	СВ	TYR	Ā	243	18.165	4.612	1.194	1.00	48.62	
					10.001	-3.828	3.281	1.00	49.37	

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1769	CG	TYR	A	243	16.082	-4.940	4.129	1.00	51.38
1770	CDI	TYR	A	243	16.964	-4.671	5.162	1.00	51.69
1771	CD2	TYR	A	243	15.741	-6.264	3.873	1.00	52.26
1772	CEI	TYR	Α	243	17.492	-5.698	5.921	1.00	52.76
1773	CE2	TYR	A	243	16.261	-7.293	4.635	1.00	52.69
1774	CZ	TYR	A	243	17.141	-7.004	5.652	1.00	52.88
1775	OH	TYR	A	243	17.668	-8.024	6.409	1.00	53.60
1776	N.	GLU	A	244	16.023	4.912	0.584	1.00	50.65
1777	CA	GLU	Α	244	16.323	-5.960	-0.383	1.00	51.25
1778	C	GLU	Α	244	17.448	-5.559	-1.325	1.00	51.58
1779	10	GLU	A	244	18.371	-6.345	-1.534	1.00	51.59
1780	CB	GLU	A	244	15.091	-6.361	-1.191	1.00	51.54
1781 .	CG	GLU	A	244	13.925	-6.882	-0.386	1.00	52.35
1782	CD	GLU	A	244	14.242	-8.097	0.454	1.00	53.32
1783	OEI	GLU	_ A	244	15.188	-8.845	0.125	1.00	53.91
1784	OE2	GLU	A	244	13.535	-8.312	1.464	1.00	53.96
1785	N	HIS	A	245	17.376	-4.358	-1.889	1.00	52.37
1786	CA	HIS	A	245	18.422	-3.872	-2.788	1.00	53.53
1787	С	HIS	I A	245	19.776	-3.940	-2.079	1.00	54.72
1788	10	HIS	Α	245	20.741	-4.460	-2.619	1.00	54.26
1789	CB	HIS	Α	245	18.120	-2.454	-3.239	1.00	53.08
1790	CG	HIS	A	245	19.042	-1.894	-4.277	1.00	52.59
1791	NDI	HIS	A	245	20.337	-1.511	-4.003	1.00	52.62
1792	CD2	HIS	A	245	18.841	-1.610	-5.584	1.00	52.43
1793	CEI	HIS	A	245	20.899	-1.032	-5.096	1.00	52.61
1794	NE2	HIS	A	245	20.012	-1.087	-6.075	1.00	52.66
1795	N	ALA	A	246	19.814	-3.419	-0.859	1.00	56.49
1796 1797	CA	ALA	A	246	20.984	-3.410	-0.006	1.00	58.02
1798	0	ALA	I A	246	21.414	-4.832	0.362	1.00	59.33
1799	СВ	ALA ALA	1 A -	246	22.605	-5.134	0.342	1.00	59.12
1800	N	LYS	A	246	20.685	-2.632	1.276	1.00	57.55
1801	CA	LYS	Ā	247	20.452	-5.691	0.677	1.00	60.88
1802	C	LYS	A	247	21.478	-7.785	-0.112	1.00	62.53
1803	0	LYS	A	247	22.586	-8.299	0.062	1.00	63.46
1804	СВ	LYS	A	247	19.444	-7.828	1.336	1.00	64.16
1805	CG	LYS	A	247	19.190	-8.093	2.806	1.00	63.75
1806	CD	LYS	A	247	18.323	-9.329	3.008	1.00	64.65
1807	CE	LYS	A	247	18.834	-10.207	4.137	1.00	65.11
1808	NZ	LYS	A	247	17.770	-11.078	4.710	1.00	65.33
1809	N_	LYS	Α	248	20.890	-7.806	-1.300	1.00	63.98
1810	CA	LYS	Α	248	21.459	-8.440	-2.475	1.00	64.52
1811	С	LYS	Α	248	22.870	-7.995	-2.808	1.00	64.22
1812	0	LYS	A	248	23.676	-8.794	-3.305	1.00	64.61
1813	СВ	LYS	A	248	20.526	-8.201	-3.673	1.00	65.73
1814	CG	LYS	. A	248	21.041	-8.731	-4.997	1.00	67.49
1815	CD	LYS	A	248	19.933	-9.335	-5.847	1.00	68.99
1816	CE	LYS	A	248	19.422	-10.650	-5.279	1.00	69.64
1817	NZ N	LYS	1.4	248	18.013	-10.943	-5.671	1.00	69.80
1819	CA	ARG	A	249	23.220	-6.740	-2.582	1.00	63.72
1820	C	ARG	A	249	24.542 25.520	-6.222	-2.893	1.00	63.29
1821	0	ARG	A	249	25.320	-6.419 -6.136	-1.743	1.00	62.36
1822	СВ	ARG	A	249	24.449	-4.730	-1.891 -3.260	1.00	62.39
1823	CG	ARG	A	249	23.678	-3.920	-2.231	1.00	63.82
1824	CD	ARG	A	249	23.874	-2.430	-2.376	1.00	64.36 64.71
1825	NE	ARG	A	249	25.279	-2.056	-2.335	1.00	64.93
1826	CZ	ARG	A	249	25.762	-0.961	-1.772	1.00	64.91
1827	NHI	ARG	A	249	24.951	-0.101	-1.182	1.00	64.78
1828	NH2	ARG	Α	249	27.067	-0.745	-1.812	1.00	65.38
1829	N	GLY	Α	250	25.040	-6.911	-0.607·	1.00	60.87
1830	CA	GLY	Α	250	25.913	-7.131	0.548	1.00	59.90
1831	c	GLY	Α	250	26.469	-5.794	1.037	1.00	58.77
1832	0	GLY	A	250	27.666	-5.532	0.986	1.00	58.78
1833	N	ALA	Α	251	25.565	-4.945	1.522	1.00	57.41
1834	CA	ALA	Α	251	25.944	-3.621	1.977	1.00	55.66
1835	<u>c</u>	ALA	Α	251	26.096	-3.568	3.491	1.00	54.72
1836	0	ALA	Α	251	25.302	<u>-4.</u> 138	4.231	1.00	55.01

1837	CB ·	ALA	A	251	24.901	-2.602	1.531	1.00	55.46
1838	N	LYS	A	252	27.088	-2.814	3.936	1.00	53.10
1839	CA	LYS	A	252	27.217	-2.428	5.336	1.00	51.33
1840	С	LYS	A	252	25.891	-1.818	5.792	1.00	49.96
1841	ō	LYS	A	252	25.612	-0.691	5.346	1.00	50.79
1842	СВ	LYS		252	28.294	-1.349	5.418	1.00	51.97
			A	252	29.460	-1.544	6.340	1.00	52.61
1843	CG	LYS	Α					, , , , , , , , , , , , , , , , , , , 	+
1844	CD	LYS	A	252	30.208	-0.239	6.593	1.00	53.01
1845	CE	LYS	Α	252	30.836	0.346	5.343	1.00	52.98
1846	NZ	LYS	Α	252	32.219	-0.157	5.097	1.00	53.69
1847	N	ILE	Α	253	25.090	-2.482	6.604	1.00	47.12
1848	CA	ILE	A	253	23.840	-1.881	7.062	1.00	44.71
1849	С	ILE	A	253	24.020	-1.246	8.435	1.00	43.36
1850	ō	ILE	A	253	24.012	-1.935	9.462	1.00	44.22
	СВ			253	22.674	-2.884	7.110	1.00	45.09
1851		ILE	<u> </u>			-3.326	5.694	1.00	44.84
1852	CG1	ILE	Α	253	22.284				
1853	CG2	ILE	Α	253	21.477	-2.282	7.844	1.00	44.25
1854	CD!	ILE	A	253	20.932	-4.007	5.591	1.00	44.67
1855	N	TYR	Α	254	24.049	0.082	8.495	1.00	41.00
1856	CA	TYR	Α	254	24.201	0.773	9.772	1.00	38.50
1857	c	TYR	A	254	22.948	0.731	10.628	1.00	37.38
1858	0	TYR	A	254	23.010	0.615	11.853	1.00	38.15
		TYR	A	254	24.571	2.235	9.557	1.00	37.33
1859	CB			254	25.979	2.477	9.071	1.00	36.11
1860	CG	TYR	Α		+				
1861	CDI	TYR	A	254	26.250	2.657	7.726	1.00	35.30
1862	CD2	TYR	A	254	27.031	2.550	9.972	1.00	35.51
1863	CEI	TYR	Α	254	27.538	2.899	7.292	1.00	35.59
1864	CE2	TYR	Α	254	28.322	2.787	9.545	1.00	34.81
1865	CZ	TYR	A	254	28.567	2.969	8.209	1.00	35.14
1866	ОН	TYR	Α	254	29.845	3.209	7.764	1.00	35.01
1867	N	ALA	A	255	21.792	0.886	10.004	1.00	36.44
				255	20.536	0.899	10.748	1.00	35.71
1868	CA	ALA	A			0.917	9.769	1.00	35.68
1869	C	ALA	Α	255	19.367				
1870	0	ALA	Α	255	19.573	0.959	8.558	1.00	34.91
1871	CB	ALA	Α	255	20.481	2.114	11.662	1.00	35.22
1872	N	GLU	Α	256	18.168	0.899	10.321	1.00	36.53
1873	. CA	GLU	Α	256	16.945	0.951	9.552	1.00	37.42
1874	С	GLU	Ā	256	16.152	2.209	9.902	1.00	37.04
1875	ō	GLU	Α	256	15.941	2.490	11.086	1.00	36.85
1876	СВ	GLU	A	256	16.054	-0.267	9.831	1.00	39.31
				256	15.103	-0.594	8.690	1.00	42.01
1877	CG	GLU	Α					1.00	-
1878	CD		Α	256	14.074		1 0 048	1 100	
1879		GLU		7.00	10.003	-1.643	9.048	1.00	43.86
	OEi	GLU	Α	256	12.853	-1.395	8.910	1.00	44.65
1880	OE1 OE2			256	14.479	-1.395 -2.750	8.910 9.478	1.00	44.65 45.17
1880 1881		GLU	Α	256 257		-1.395 -2.750 -2.931	8.910 9.478 8.874	1.00 1.00 1.00	44.65 45.17 36.43
1881	OE2	GLU GLU	A	256	14.479	-1.395 -2.750	8.910 9.478	1.00	44.65 45.17
1881 1882	OE2 N CA	GLU GLU LEU LEU	A A A	256 257	14.479 15.723	-1.395 -2.750 -2.931	8.910 9.478 8.874	1.00 1.00 1.00	44.65 45.17 36.43
1881 1882 1883	OE2 N CA	GLU GLU LEU LEU LEU	A A A A	256 257 257 257	14.479 15.723 14.882 13.456	-1.395 -2.750 2.931 4.120	8.910 9.478 8.874 9.112	1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83
1881 1882 1883 1884	OE2 N CA C	GLU GLU LEU LEU LEU LEU	A A A A A	256 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950	1.395 -2.750 2.931 4.120 3.603 2.950	8.910 9.478 8.874 9.112 9.292 8.368	1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09
1881 1882 1883 1884 1885	OE2 N CA ·C O CB	GLU GLU LEU LEU LEU LEU LEU LEU	A A A A A A	256 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990	1.395 -2.750 2.931 4.120 3.603 2.950 5.075	8.910 9.478 8.874 9.112 9.292 8.368 7.952	1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17
1881 1882 1883 1884 1885	OE2 N CA C O CB	GLU GLU LEU LEU LEU LEU LEU LEU LEU	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62
1881 1882 1883 1884 1885 1886 1887	OE2 N CA C O CB CG CD1	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47
1881 1882 1883 1884 1885 1886 1887	OE2 N CA C C O CB CCG CD1 CD2	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU LEU L	A A A A A A A	256 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59
1881 1882 1883 1884 1885 1886 1887	OE2 N CA C O CB CG CD1	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU	A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38
1881 1882 1883 1884 1885 1886 1887	OE2 N CA C C O CB CCG CD1 CD2	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU LEU L	A A A A A A A	256 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14
1881 1882 1883 1884 1885 1886 1887 1888 1889	OE2 N CA C O CB CCG CD1 CD2 N	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU LEU L	A A A A A A A A	256 257 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890	OE2 N CA C O CB CCB CCDI CD2 N CA C	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU LEU L	A A A A A A A A A A A	256 257 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890	OE2 N CA C O CB CCB CCDI CD2 N CA C	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891	OE2 N CA C O CB CCDI CD2 N CA C C CD1 CD2 CD2 CD2 CD3 CCA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU LYAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893	OE2 N CA C O CB CCD1 CD2 N CA C C CD1 CD2 CCA C CA C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257 257 258 258 258 258 258 258	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.89 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893	OE2 N CA C C C CB CCB CCD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894	OE2 N CA C O CB CCD1 CD2 N CA C C CD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL VAL VAL VAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893	OE2 N CA C C C CB CCB CCD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894	OE2 N CA C O CB CCD1 CD2 N CA C C CD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL VAL VAL VAL VAL VAL	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594 11.195	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.38
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897	OE2 N CA C O CB CCD CD2 N CA C C CD1 CD2 N CA C C O CB CCA C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL VAL VAL VAL GLY GLY	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898	OE2 N CA C O CB CCD CD2 N CA C C CD1 CCD2 N CA C C O CB CCA C O CB CCA C O CB CCA C O CB CCB CCA C O CB CCB CCB CCB CCB CCB CCB CCB CCB	GLU GLU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL GLY GLY GLY	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718 10.094 11.260	-1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223 7.640	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594 11.195	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.38
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898	OE2 N CA C O CB CCDI CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL GLY GLY GLY GLY GLY GLY GLY GLY PHE	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718 10.094 11.260 9.104	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223 7.640 8.010 8.408	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.194 11.845 11.602 13.219 11.243 11.594 11.195 11.307 10.758	1.00 1.00	44.65 45.17 36.43 35.83 35.89 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.38 34.33 32.82
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901	OE2 N CA C O CB CCD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL GLY GLY GLY GLY PHE	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718 10.094 11.260 9.104 9.288	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223 7.640 8.010 8.408 9.793	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594 11.195 11.307 10.758 10.342	1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.38 34.33 34.33 34.33 34.33 34.33
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901	OE2 N CA C C CB CCB CCD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL VAL GLY GLY GLY PHE PHE	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.990 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718 10.094 11.260 9.104 9.288 8.028	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223 7.640 8.010 8.408 9.793 10.607	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.345 11.602 13.219 11.243 11.594 11.195 11.0758 10.342 10.608	1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.36 34.38 34.38
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901	OE2 N CA C O CB CCD1 CD2 N CA C C C C C C C C C C C C C C C C C	GLU GLU LEU LEU LEU LEU LEU LEU LEU VAL VAL VAL VAL GLY GLY GLY GLY PHE	A A A A A A A A A A A A A A A A A A A	256 257 257 257 257 257 257 257 257	14.479 15.723 14.882 13.456 12.950 14.474 14.176 15.503 12.898 11.603 10.495 9.349 11.619 12.689 11.761 10.787 9.718 10.094 11.260 9.104 9.288	1.395 -2.750 2.931 4.120 3.603 2.950 5.075 6.497 6.980 7.434 3.663 3.034 4.012 3.561 1.965 0.913 2.594 5.287 6.223 7.640 8.010 8.408 9.793	8.910 9.478 8.874 9.112 9.292 8.368 7.952 8.023 9.428 7.371 10.496 10.719 11.049 11.194 11.845 11.602 13.219 11.243 11.594 11.195 11.307 10.758 10.342	1.00 1.00	44.65 45.17 36.43 35.83 35.09 35.81 36.17 36.62 36.47 36.59 34.38 34.14 33.65 34.38 34.54 33.95 32.70 33.01 32.64 33.38 34.33 34.33 34.33 34.33 34.33

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1905	CG	PHE	A	260	9.673	1 11.244	8.289	1100	
1906	CDI	PHE	A	260	10.339	12.272		1.00	30.39
1907	CD2	PHE	A	260	9.014		8.939	1.00	30.56
1908	CEI	PHE	A	260		11.518	7.103	1.00	30.06
1909	CE2	PHE	_		10.344	13.552	8.419	1.00	30.43
1910	CZ		A	260	9.023	12.791	6.566	1.00	29.90
1911		PHE	_ A	260	9.687	13.803	7.227	1.00	30.57
-	N	GLY	A	261	8.141	11.610	11.470	1.00	29.70
1912	CA	GLY	A	261	7.008	12.434	11.837	1.00	28.92
1913	C	GLY	_ A	261	7.223	13.919	11.616	1.00	
1914	O	GLY	A	261	8.264	14.502	11.927		29.15
1915	N	MET	A	262	6.195	14.568		1.00	28.06
1916	CA	MET	A	262	6.234		11.075	1.00	29.65
1917	С	MET	Ā			16.006	10.832	1.00	30.20
1918	10			262	5.070	16.647	11.596	1.00	30.06
1919		MET	A	262	4.076	15.969	11.820	1.00	30.13
	CB	MET	A	262	6.108	16.345	9.363	1.00	30.45
1920		MET	A	262	7.201	15.870	8.440	1.00	30.83
1921	SD	MET	A	262	6.528	15.370	6.839	1.00	33.07
1922	CE	MET	A	262	6.552	16.931	5.973		
1923	N	SER	A	263	5.220	17.898		1.00	33.59
1924	CA	SER	A	263	4.195		11.968	1.00	30.55
1925	С	SER	A	263		18.630	12.684	1.00	31.14
1926	10				4.371	20.143	12.513	1.00	31.88
1927		SER	A	263	5.461	20.618	12.178	1.00	31.41
	CB	SER	A	263	4.271	18.315	14.184	1.00	31.36
1928	OG	SER	A	263	5.026	19.356	14.817	1.00	32.23
1929	N	SER	A	264	3.304	20.883	12.800	1.00	32.27
1930	CA	SER	Α	264	3.383	22.344	12.751	1.00	
1931	C	SER	A	264	2.953	22.913			33.13
1932	0	SER	A	264	2.190	22.277	14.107	1.00	33.50
1933	СВ	SER	A	264			14.843	1.00	34.89
1934	OG				2.563	22.928	11.619	1.00	33.19
1935	N	SER	A	264	3.245	22.889	10.378	1.00	32.30
		ASP	_ A	265	3.549	24.024	14.495	1.00	32.03
1936	CA	ASP	A	265	3.310	24.635	15.783	1.00	31.81
1937	C	ASP	A	265	2.084	25.546	15.757	1.00	33.26
1938		ASP	A	265	1.225	25.499	16.637	1.00	
1939	CB	ASP	A	265	4.523	25.457	16.231		33.79
1940	CG	ASP	A	265	5.554			1.00	29.59
1941	ODI	ASP	A	265		24.701	17.034	1.00	27.79
1942	OD2	ASP			5.426	23.486	17.253	1.00	25.02
1943	N N		A	265	6.556	25.343	17.450	1.00	27.38
		ALA	_ <u> </u>	266	2.039	26.413	14.753	1.00	34.80
1944	CA	ALA	A	266	0.929	27.352	14.616	1.00	36.45
1945	C	ALA	Α	266	0.882	28.274	15.829	1.00	38.12
1946	10	ALA	A	266	-0.183	28.542	16.390	1.00	
1947	СВ	ALA	A	266	-0.366	26.578	14.412		39.22
1948	N	TYR	A	·267				1.00	35.63
1949	CA	TYR	A		2.047	28.804	16.209	1.00	39.02
1950	C			267	2.138	29.676	17.365	1.00	40.82
_	+	TYR	A	267	2.858	30.985	17.074	1.00	40.11
1951	10	TYR	A	267	2.279	32.071	17.056	1.00	40.09
1952	СВ	TYR	Α	267	2.853	28.938	18.513	1.00	42.94
1953	CG	TYR	Α	267	2.995	29.795	19.754	1.00	45.78
1954	CDI	TYR	A	267	1.870	30.187	20.475	1.00	
1955	CD2	TYR	Α	267	4.240	30.225	20.194		46.70
1956	CEI	TYR	A	267	1.997	30.980		1.00	46.17
1957	CE2	TYR					21.598	1.00	47.78
1958	CZ		<u>A</u>	267	4.369	31.016	21.316	1.00	46.66
		TYR	Α	267	3.246	31.393	22.012	1.00	47.81
1959	ОН	TYR	A	267	3.352	32.177	23.146	1.00	49.51
1960	N	HIS	Α	268	4.167	30.890	16.898	1.00	39.39
1961	CA	HIS	Α	268	4.985	32.066	16.641	1.00	
1962	С	HIS	A	268	5.976	31.797	15.519		38.82
1963	0	HIS	A	268	6.275			1.00	38.25
1964	СВ	HIS	A			30.640	15.227	1.00	37.62
1965				268	5.684	32.479	17.942	1.00	38.89
	CG	HIS	Α	268	6.302	33.838	17.821	1.00	38.92
1966	NDI	HIS	A	268	7.602	34.018	17.404	1.00	39.06
1967	CD2	HIS	Α	268	5.784	35.065	18.025	1.00	39.28
1968	CEI	HIS	A	268	7.871	35.309	17.376	1.00	
1969	NE2	HIS	Α	268	6.783	35.966			39.76
1970	N	MET	A	269	6.475		17.743	1.00	40.01
1971	CA	MET	A			32.851	14.890	1.00	38.43
1972	c			269	7.351	32.732	13.739	1.00	39.01
	<u> </u>	MET	Α	269	8.749	_32.275	14.107	1.00	39.15

1973	0	MET	I A	269	9.426	31.657	13.275	1.00	39.25
1974	CB	MET	I A	269	7.386	34.016	1 12.910	1.00	
1975	CG	MET	A	269	7.675	35.291	13.655		38.43
1976	SD	MET	A	269	8.284			1.00	38.54
1977	Œ	MET		269		36.624	12.597	1.00	39.05
1978	N		I A		6.747	37.295	11.973	1.00	38.85
		THR	_ A	270	9.206	32.554	15.318	1.00	39.79
1979	CA	THR	A	270	10.544	32.142	15.738	1.00	39.79
1980	C	THR	A	270	10.491	31.386	17.061	1.00	39.73
1981	0	THR	A	270	11.262	30.461	17.286	1.00	40.16
1982	СВ	THR	A	270	11.500	33.336	15.909	1.00	
1983	OGI	THR	A	270	10.849	34.378			39.47
1984	CG2	THR	A	270			16.650	1.00	38.86
1985	N				11.946	33.850	14.549	1.00	39.41
		SER	A	271	9.562	31.784	17.912	1.00	39.92
1986	CA	SER	I A	271	9.368	31.191	19.218	1.00	40.15
1987	С	SER	A	271	8.529	29.923	19.208	1.00	39.41
1988	0	SER	A	271	7.519	29.833	18.522	1.00	38.39
1989	CB	SER	A	271	8.655	32.218	20.122	1.00	
1990	OG	SER	A	271	9.597	32.892	20.930		40.93
1991	N	PRO	A	272				1.00	42.94
1992	CA				8.916	28.967	20.033	1.00	39.55
		PRO	Α	272	8.149	27.755	20.264	1.00	39.89
1993	<u>c</u>	PRO	_ A	272	7.144	27.989	21.382	1.00	40.70
1994	0	PRO	I A	272	7.253	28.945	22.155	1.00	40.74
1995	СВ	PRO	LA	272	9.213	26.763	20.710	1.00	39.54
1996	CG	PRO	A	272	10.251	27.585	21.378	1.00	39.69
1997	CD	PRO	A	272	10.104	29.011	20.924		
1998	N	PRO	A	273	6.128	27.155	21.451	1.00	39.50
1999	CA	PRO	A					1.00	41.57
2000	c			273	5.155	27.209	22.529	1.00	41.97
		PRO	A	273	5.763	26.687	23.815	1.00	42.79
2001	0	PRO	Α	273	6.367	25.604	23.834	1.00	42.22
2002	CB	PRO	A	273	4.021	26.336	22.032	1.00	41.91
2003	CG	PRO	A	273	4.442	25.701	20.769	1.00	41.49
2004	CD	PRO	A	273	5.908	25.976	20.573	1.00	41.55
2005	N	GLU	A	274	5.557	27.355	24.947		
2006	CA	GLU	A	274	6.113			1.00	44.77
2007	C	GLU	A	274		26.899	26.229	1.00	46.56
2008			$\overline{}$		5.820	25.427	26.481	1.00	45.89
	0	GLU	A	274	6.614	24.681	27.049	1.00	46.05
2009	СВ	GLU	A	274	5.598	27.763	27.382	1.00	48.17
2010	CG	GLU	Α	274	6.173	29.169	27.404	1.00	49.92
2011	CD	GLU	Α	274	6.416	29.712	28.793	1.00	51.48
2012	OEI	GLU	A	274	5.443	30.190	29.421	1.00	52.14
2013	OE2	GLU	Α.	274	7.573	29.677	29.280	1.00	
2014	N	ASN	A	275	4.655	24.997	26.094	+	52.45
2015	CA	ASN	A	275	4.102			1.00	45.72
2016	C					23.686	26.059	1.00	46.22
		ASN	Α	275	4.974	22.643	25.375	1.00	45.27
2017	0	ASN	A	275	5.181	21.540	25.870	1.00	45.50
2018	CB	ASN	<u> A</u>	275	2.792	23.832	25.226	1.00	48.36
2019	CG	ASN	Α	275	1.786	22.757	25.501	1.00	50.56
2020	ODI	ASN	A	275	0.610	23.052	25.746	1.00	51.89
2021	ND2	ASN	A	275	2.222	21.499	25.461	1.00	
2022	N	GLY	A	276	5.404	22.926	24.142		51.68
2023	CA	GLY	A	276	6.162			1.00	43.78
2024	C.					21.984	23.332	1.00	41.18
		GLY	A	276	5.229	21.052	22.558	1.00	39.94
2025	0	GLY	A	276	5.630	19.999	22.057	1.00	38.60
2026	N	ALA	A	277	3.960	21.444	22.429	1.00	38.88
2027	CA	ALA	Α	277	2.943	20.651	21.765	1.00	38.13
2028	С	ALA	Α	277	3.282	20.243	20.338	1.00	37.49
2029	0	ALA	Α	277	2.921	19.138	19.911	1.00	
2030	СВ	ALA	A	277	1.602				37.45
2031	N					21.380	21.780	1.00	37.64
		GLY	A	278	3.871	21.144	19.562	1.00	36.32
2032	CA	GLY	Α	278	4.257	20.831	18.183	1.00	34.59
2033	С	GLY	Α	278	5.357	19.776	18.211	1.00	33.11
2034	0	GLY	Α	278	5.263	18.743	17.545	1.00	32.66
2035	N	ALA	Α	279	6.362	20.011	19.051	1.00	31.37
2036	CA	ALA	A	279	7.431	19.025	19.215		
2037	c	ALA	A	279				1.00	31.33
2038	0 .	ALA			6.857	17.681	19.660	1.00	31.17
			Α	279	7.231	16.611	19.159	1.00	31.33
2039	СВ	ALA	Α	279	8.444	19.546	20.212	1.00	31.56
2040	·N	ALA	Α	280	5.884	17.714	20.562	1.00	30.93
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2041	CA	ALA	A	280	5.212	16.513	21.041	1.00	31.18
2042	С	ALA	. A	280	4.505	15.758	19.932	1.00	31.56
2043	0	ALA	A	280	4.626	14.536	19.788	1.00	
2044	CB	ALA	A	280	4.227	16.911	22.141		31.58
2045	N	LEU	A	281	3.781	16.482		1.00	30.59
2046	CA	LEU	A	281			19.078	1.00	31.84
2047	C	LEU			2.989	15.831	18.031	1.00	32.50
2048			A	281	3.840	15.238	16.924	1.00	32.77
	0	LEU	<u> </u>	281	3.402	14.330	16.205	1.00	32.06
2049	CB	LEU	_ A	281	1.958	16.823	17.508	1.00	33.11
2050	CG	LEU	[A	281	1.157	16.429	16.271	1.00	34.64
2051	_ CD1	LEU	Α	281	0.256	15.241	16.556	1.00	
2052	CD2	LEU	A	281	0.351	17.623			33.87
2053	N	ALA	A	282			15.767	1.00	34.77
2054	CA	ALA			5.072	15.723	16.774	1.00	32.69
2055	c		A	282	5.988	15.209	15.765	1.00	31.83
	\rightarrow	ALA	<u> </u>	282	6.667	13.936	16.256	1.00	31.20
2056	0	ALA	A	282	6.953	13.060	15.448	1.00	29.68
2057	CB	ALA	A	282	7.022	16.256	15.397	1.00	32.01
2058	N	MET	Α	283	6.927	13.865	17.571	1.00	
2059	CA	MET	A	283	7.522	12.619			31.55
2060	С	MET	A	283			18.101	1.00	32.09
2061	0		$\overline{}$		6.415	11.558	18.038	1.00	32.78
2062	СВ	MET	 ^	283	6.510	10.526	17.386	1.00	32.13
		MET	A	283	8.041	12.793	19.507	1.00	31.89
2063	CG	MET	A	283	9.262	13.684	19.646	1.00	31.94
2064	SD	MET	A	283	9.783	13.914	21.342	1.00	31.98
2065	CE	MET	Α	283	8.955	15.399	21.846	1.00	31.11
2066	N	ALA	A	284	5.274	11.947	18.604	1.00	
2067	CA	ALA	A	284	4.038	11.207			33.35
2068	С	ALA	A	284	3.757		18.566	1.00	33.77
2069	ō	ALA		284		10.601	17.196	1.00	34.98
2070	CB		A		3.547	9.387	17.080	1.00	36.92
	+	ALA	A	284	2.907	12.160	18.950	1.00	33.34
2071	N	ASN	A	285	3.789	11.409	16.147	1.00	35.09
2072	CA	ASN	A	285	3.535	10.975	14.782	1.00	34.98
2073	С	ASN	Α	285	4.601	10.009	14.281	1.00	35.26
2074	0	ASN	Α	285	4.339	9.059	13.540	1.00	
2075	CB	ASN	A	285	3.433	12.196			35.45
2076	CG	ASN	A	285			13.863	1.00	34.80
2077	ODI	ASN			2.128	12.946	13.906	1.00	35.23
2078			A	285	1.075	12.436	14.290	1.00	36.24
	ND2	ASN	A	285	2.126	14.219	13.505	1.00	34.94
2079	N	ALA	A	286	5.854	10.220	14.671	1.00	35.27
2080	CA	ALA	Α	286	6.964	9.362	14.285	1.00	34.55
2081	С	ALA	Α	286	6.742	7.970	14.874	1.00	35.42
2082	0	ALA	A	286	6.960	6.935	14.264		
2083	CB	ALA	A	286	8.268	9.936		1.00	34.04
2084	N	LEU	A	287			14.818	1.00	33.75
2085	CA				6.321	7.995	16.143	1.00	37.17
		LEU	A	287	6.018	6.780	16.884	1.00	38.32
2086	C	LEU	A	287	4.957	5.967	16.164	1.00	39.73
2087	0	LEU	A	287	5.158	4.784	15.877	1.00	38.69
2088	CB	LEU	Α	287	5.600	7.154	18.313	1.00	37.88
2089	CG	LEU	A	287	6.795	7.426	19.249	1.00	37.80
2090	CDI	LEU	Α	287	6.334	7.877	20.616		
2091	CD2	LEU	A	287				1.00	37.05
2092	N	ARG	Ā		7.683	6.190	19.347	1.00	37.58
2092				288	3.851	6.632	15.806	1.00	41.38
	CA	ARG	A	288	2.769	5.969	15.083	1.00	42.96
2094	С	ARG	A	288	3.269	5.379	13.774	1.00	42.65
2095	0	ARG	Α	288	3.015	4.219	13.465	1.00	42.61
2096	CB	ARG	Α	288	1.613	6.940	14.836	1.00	45.04
2097	CG	ARG	Α	288	0.425	6.321			
2098	CD	ARG	A	288	-0.811		14.128	1.00	48.66
2099	NE	ARG	Ā			7.210	14.128	1.00	51.29
				288	-0.651	8.364	13.243	1.00	53.75
2100	CZ	ARG	Α	288	-0.499	9.617	13.668	1.00	54.99
2101	NHI	ARG	Α	288	-0.514	9.916	14.964	1.00	54.93
2102	NH2	ARG	Α	288	-0.326	10.579	12.762	1.00	56.01
2103	N	ASP	A	289	4.067	6.129	13.025	1.00	42.95
2104	CA	ASP	Α	289	4.620	5.710	11.751		
2105	c	ASP	A	289	5.494	4.477		1.00	42.81
2106	ō	ASP					11.897	1.00	43.26
			_ <u>A</u>	289	5.539	3.627	11.010	1.00	43.44
	CB	ASP	<u>A</u>	289	5.428	6.850	11.122	1.00	43.06
2108	CG	ASP	Α	289	5.762	6.635	9.663	1.00	43.34
									لـــنــــــــــــــــــــــــــــــــــ

				00,	770				
2109	ODI	ASP	A	289	6.926	6.875	9.262	1.00	43.42
2110	OD2	ASP	A	289	4.871	6.222	8.888	1.00	43.16
2111	N	ALA	Α	290	6.219	4.383	13.006	1.00	44.10
2112	CA	ALA	A	290	7.082	3.243	13.279	1.00	44.21
2113	С	ALA	A	290	6.287	2.108	13.921	1.00	
2114	0	ALA	A	290	6.659	0.944	13.787		44.87
2115	СВ	ALA	A	290	8.234	3.653	14.178	1.00	45.98
2116	N	GLY	A	291	5.218	2.444		1.00	43.78
2117	CA	GLY	A	291			14.636	1.00	44.81
2118	C	GLY		291	4.362	1.476	15.281	1.00	44.46
2119	10		A		4.864	1.013	16.634	1.00	44.95
2120	N -	GLY	A	291	4.471	-0.051	17.128	1.00	45.58
		ILE	A	292	5.742	1.778	17.273	1.00	44.88
2121	CA	ILE	A	292	6.300	1.395	18.562	1.00	44.50
2122	C	ILE	A	292	5.816	2.343	19.650	1.00	45.65
2123	<u> </u>	ILE	A	292	5.155	3.335	19.342	1.00	46.14
2124	CB	ILE	Α	292	7.833	1.360	18.544	1.00	43.75
2125	CG1	ILE	Α	292	8.408	2.772	18.452	1.00	43.53
2126	CG2	ILE	Α	292	8.345	0.488	17.399	1.00	43.48
2127	CDI	ILE	A	292	9.919	2.823	18.411	1.00	43.81
2128	N	GLU	A	293	6.139	2.028	20.896		
2129	CA	GLU	A	293	5.750	2.864	22.029	1.00	46.56
2130	C	GLU	A	293	6.937	3.673		1.00	47.85
2131	ō	GLU	A	293	8.089		22.527	1.00	47.03
2132	СВ	GLU	A	293		3.286	22.313	1.00	46.47
2133	CG				5.186	1.973	23.133	1.00	50.62
2134	CD	GLU	A	293	3.680	1.735	23.051	1.00	53.57
2134	OEI	GLU	A	293	3.132	1.252	24.385	1.00	55.85
		GLU	I A	293	3.663	0.235	24.895	1.00	56.88
2136	OE2	GLU	- -A	293	2.191	1.876	24.929	1.00	56.96
2137	N	ALA	A	294	6.708	4.773	23.233	1.00	46.80
2138	CA	ALA	A	294	7.797	5.618	23.718	1.00	47.26
2139	C	ALA	A	294	8.843	4.831	24.484	1.00	47.74
2140	<u> </u>	ALA	A	294	10.056	5.007	24.289	1.00	48.22
2141	CB	ALA	l A	294	7.260	6.780	24.546	1.00	46.78
2142	N	SER	Α	295	8.436	3.892	25.316	1.00	48.05
2143	CA	SER	Α	295	9.257	3.037	26.133	1.00	47.63
2144	С	SER	A	295	10.346	2.265	25.410	1.00	46.97
2145	0	SER	Α	295	11.303	1.793	26.057	1.00	47.56
2146	CB	SER	Α	295	8.340	2.003	26.837	1.00	48.01
2147	OG	SER	A	295	8.027	0.966	25.905	1.00	48.28
2148	N	GLN	A	296	10.256	2.092	24.102	1.00	45.19
2149	CA	GLN	A	296	11.275	1.355	23.359	1.00	
2150	С	GLN	A	296	12.408	2.264	22.917		44.36
2151	ō	GLN	A	296	13.471	1.798		1.00	42.95
2152	СВ	GLN	Ā	296	10.617		22.505	1.00	42.77
2153	CG	GLN	Ā	296		0.635	22.180	1.00	45.62
2154	CD	GLN	A	296	9.237	0.075	22.532	1.00	46.57
			+		8.730	-0.897	21.494	1.00	47.79
2155	OEI	GLN	A	296	7.551	-0.881	21.125	1.00	48.74
2156	NE2	GLN	A	296	9.609	-1.763	21.001	1.00	48.30
2157	N	ILE	A	297	12.205	3.573	23.038	1.00	41.44
2158	CA	ILE	A	297	13.219	4.559	22.695	1.00	39.95
2159	C	ILE	A	297	14.281	4.624	23.787	1.00	38.41
2160	0	ILE	Α	297	14.009	4.967	24.934	1.00	37.64
2161	СВ	ILE	Α	297	12.625	5.963	22.469	1.00	40.09
2162	CGI	ILE	Α	297	11.659	5.978	21.279	1.00	39.62
2163	CG2	ILE	Α	297	13.728	6.994	22.250	1.00	39.76
2164	CDI	ILE	A	297	12.247	5.455	19.990	1.00	39.49
2165	N	GLY	A	298	15.515	4.307	23.421	1.00	37.84
2166	CA	GLY	Α	298	16.599	4.327	24.404	1.00	37.21
2167	C	GLY	A	298	17.183	5.719	24.557		
2168	Ö	GLY	A	298	17.183	6.216		1.00	37.35
2169	N	TYR	A	299			25.665	1.00	37.77
2170	CA	TYR			17.447	6.354	23.420	1.00	37.03
			A	299	18.092	7.654	23.391	1.00	35.98
2171	c	TYR	A	299	17.388	8.622	22.447	1.00	35.82
2172	<u> </u>	TYR	A	299	17.030	8.314	21.312	1.00	35.55
2173	СВ	TYR	Α	299	19.551	7.463	22.983	1.00	36.16
2174	CG	TYR	A	299	20.319	8.708	22.633	1.00	36.96
2175	CDI	TYR	A	299	20.929	8.828	21.390	1.00	37.22
2176	CD2	TYR	A	299	20.456	9.757	23.535	1.00	37.10

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2177	CEI	TYR	A	299	21.648	9.957	21.048	1.00	37 84
2178	CE2	TYR	A	299	21,165	10.893	23.204	1.00	37.79
2179	CZ	TYR	Α	299	21.770	10.981	21.966	1.00	38.60
2180	ОН	TYR	Α	299	22.504	12.096	21.627	1.00	39.51
2181	N	VAL	A	300	17.222	9.841	22.938	1.00	34.63
2182	CA	VAL	Α	300	16.664	10.948	22.185	1.00	33.18
2183	С	VAL	A	300	17.784	11.965	21.929	1.00	32.63
2184	0	VAL	Α	300	18.255	12.605	22.871	1.00	32.19
2185	CB	VAL	A	300	15.524	11.660	22.938	1.00	32.62
2186	CGI	VAL	A	300	15.214	13.020	22.333	1.00	32.40
2187	CG2	VAL	A	300	14.269	10.800	22.975	1.00	32.13
2188	N	ASN	A	301	18.193	12.099	20.675		
2189	CA	ASN	A	301				1.00	32.15
					19.069	13.226	20.309	1.00	31.41
2190	C	ASN	A	301	18.178	14.464	20.181	1.00	30.53
2191	0	ASN	A	301	17.442	14.640	19.215	1.00	31.07
2192	СВ	ASN	Α	301	19.859	12.951	19.048	1.00	31.30
2193	CG	ASN	A	301	20.806	14.085	18.713	1.00	31.98
2194	ODI	ASN	Α	301	21.995	14.005	19.010	1.00	31.87
2195	ND2	ASN	A	301	20.263	15.136	18.093	1.00	32.95
2196	N	ALA	Α	302	18.200	15.291	21.205	1.00	29.64
2197	CA	ALA	Α	302	17.376	16.466	21.312	1.00	29.90
2198	С	ALA	Α	302	17.724	17.596	20.361	1.00	29.88
2199	Ō	ALA	Α	302	18.820	17.710	19.818	1.00	30.09
2200	CB	ALA	Α	302	17.484	17.001	22.755	1.00	29.38
2201	N	HIS	A	303	16.747	18.500	20.201	1.00	29.39
2202	CA	HIS	A	303	17.001	19.687	19.382	1.00	29.72
2203	c	HIS	A	303	17.906	20.605	20.225	1.00	29.85
2204	0	HIS	Α .	303	18.944	21.062	19.777	1.00	29.00
2205	СВ	HIS	A	303	15.719	20.388	18.976	1.00	29.67
2206	CG .	HIS	A	303	15.963	21.570	18.080	1.00	29.65
2207	NDI	HIS	A	303	16.740	21.478	16.942	1.00	30.47
2208	CD2	HIS	A	303	15.552	22.850	18.160	1.00	29.32
	CD2	+					16.355		
	CEI	1 Little							
2209	CEI	HIS	A	303	16.792	22.660		1.00	30.67
2210	NE2	HIS	Α	303	16.084	23.516	17.084	1.00	30.18
2210 2211	NE2 N	HIS GLY	A A	303 304	16.084 17.545	23.516 20.716	17.084 21.499	1.00 1.00	30.18 30.19
2210 2211 2212	NE2 N CA	HIS GLY GLY	A A A	303 304 304	16.084 17.545 18.260	23.516 20.716 21.378	17.084 21.499 22.551	1.00 1.00	30.18 30.19 31.04
2210 2211 2212 2213	NE2 N CA C	HIS GLY GLY GLY	A A A	303 304 304 304	16.084 17.545 18.260 19.387	23.516 20.716 21.378 22.299	17.084 21.499 22.551 22.113	1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87
2210 2211 2212 2213 2214	NE2 N CA C	HIS GLY GLY GLY GLY	A A A A	303 304 304 304 304	16.084 17.545 18.260 19.387 20.568	23.516 20.716 21.378 22.299 21.962	17.084 21.499 22.551 22.113 22.172	1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26
2210 2211 2212 2213 2214 2215	NE2 N CA C O	HIS GLY GLY GLY GLY THR	A A A	303 304 304 304 304 305	16.084 17.545 18.260 19.387 20.568 19.016	23.516 20.716 21.378 22.299 21.962 23.502	17.084 21.499 22.551 22.113 22.172 21.704	1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87
2210 2211 2212 2213 2214 2215 2216	NE2 N CA C O N CA	HIS GLY GLY GLY GLY THR	A A A A A	303 304 304 304 304 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924	23.516 20.716 21.378 22.299 21.962 23.502 24.486	17.084 21.499 22.551 22.113 22.172 21.704 21.163	1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26
2210 2211 2212 2213 2214 2215	NE2 N CA C O	HIS GLY GLY GLY GLY THR	A A A A	303 304 304 304 304 305	16.084 17.545 18.260 19.387 20.568 19.016	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160	1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59
2210 2211 2212 2213 2214 2215 2216	NE2 N CA C O N CA	HIS GLY GLY GLY GLY THR	A A A A A	303 304 304 304 304 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924	23.516 20.716 21.378 22.299 21.962 23.502 24.486	17.084 21.499 22.551 22.113 22.172 21.704 21.163	1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95
2210 2211 2212 2213 2214 2215 2216 2217	NE2 N CA C O N CA	HIS GLY GLY GLY GLY THR THR	A A A A A A	303 304 304 304 304 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62
2210 2211 2212 2213 2214 2215 2216 2217 2218	NE2 N CA C O N CA C	HIS GLY GLY GLY THR THR THR THR	A A A A A A	303 304 304 304 304 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219	NE2 N CA C O N CA C O C O C C O	HIS GLY GLY GLY GLY THR THR THR THR	A A A A A A	303 304 304 304 304 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220	NE2 N CA C O N CA C C O CB	HIS GLY GLY GLY GLY THR THR THR THR THR THR	A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.709	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221	NE2 N CA C O N CA C C O C C O CB	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR	A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.709 19.074	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222	NE2 N CA C O N CA C C O CB O CB	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.170 21.730 20.073 20.709 19.074 23.448	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224	NE2 N CA C O N CA C O CB O CB O CB CCB CCC CCB CCC CCCC CCCC CCCC CCCC CCCC CCCC CCCC CCCC	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR SER SER	A A A A A A A A A A A A A A A A A A A	303 304 304 304 305 305 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.709 19.074 23.448 24.492 24.521	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225	NE2 N CA C O N CA C O CB OGI CG2 N CA C	HIS GLY GLY GLY THR THR THR THR THR THR THR SER SER SER	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2223 2224 2225 2226	NE2 N CA C O N CA C O CB OGI CG2 N CA C	HIS GLY GLY GLY THR THR THR THR THR THR SER SER SER SER	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305 306 306 306	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 20.074 23.448 24.492 24.521 24.800 24.382	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227	NE2 N CA C O N CA C O CB OGI CG2 N CA C C O CB OGO CGB OGO CGB OGO CGB OGO CGB OGO CGB OGO CGB OGO CGB	HIS GLY GLY GLY GLY THR THR THR THR THR THR SER SER SER SER SER SER	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 306 306 306 306 306	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.074 23.448 24.492 24.521 24.800 24.382 25.564	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB O CB O CB O CB O CB O CB O CB	HIS GLY GLY GLY GLY THR THR THR THR THR SER SER SER SER SER SER SER THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 306 306 306 306 306 306 306 307	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.25 30.25 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C C O CB OG CA C C C C C C C C C C C C C C C C C C	HIS GLY GLY GLY GLY THR THR THR THR THR THR SER SER SER SER SER SER THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.773 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.44 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2227 2228 2227 2228 2229 2229	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CCA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CA C C O CB CB CC C CB CC C C C C C C C C	HIS GLY GLY GLY GLY THR THR THR THR THR THR SER SER SER SER SER SER THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.2887 18.828 18.054 17.049	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.429	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2228 2229 2230 2231	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CCA C O CB O CB OG CA C O CB OG O CB	HIS GLY GLY GLY THR THR THR THR THR THR SER SER SER SER SER SER THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.2887 18.2887 18.29 18.054 17.049 16.500	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.623	1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.062 31.06 30.43
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2229 2230 2231 2231	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB O CB OG CB O CB O CB O CB O CB O	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.227 25.429 25.623 22.986	1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 31.06
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2224 2225 2226 2227 2228 2229 2230 2231 2232 2232 2233	NE2 N CA C O N CA C O CB OGI CCA C O CB OG CB OG CB OG CB OG CCB OG CB	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.750 28.601 27.519 29.115 28.137	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.228 24.228 24.228 24.229 25.623 22.986 22.714	1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.75 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 31
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2230 2231 2232 2233 2234	NE2 N CA C O N CA C O CB OGI CCA C O CB OGI CCA C O CB OG CB OG CB OG CB OG CCB OG CB OG CCB	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.079 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.429 25.623 22.986 22.714 21.834	1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 31.06 30.43 29.95 29.62 29.18
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2231 2232 2233 2234 2235	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OG CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG O C	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 24.482 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.429 25.623 22.986 22.714 21.834 26.249	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2230 2231 2232 2233 2234	NE2 N CA C O N CA C O CB OGI CCA C O CB OGI CCA C O CB OG CB OG CB OG CB OG CCB OG CB OG CCB	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.387 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.623 22.986 22.714 21.834 26.249 27.413	1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 31.06 30.43 29.95 29.62 29.18
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2231 2232 2233 2234 2235	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OG CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG O C	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 24.482 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.429 25.623 22.986 22.714 21.834 26.249	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2229 2230 2231 2232 2232 2233 2234 2235 2236	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C O CB O CB OG N CA C C O CB OG CB OG N CA C C O CB OG CB OG CB OG CA C C	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.387 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.623 22.986 22.714 21.834 26.249 27.413	1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.44 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42 33.00
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C O CB OG N CA C O CB OG N CA C O CB OG N CA C C O CB OG CB OG CB O CB OG CB CG CB OG CB CG CG CB CG CG CB CG CG CB CG CG CG CG CG CG CG CG CG CG CG CG CG	HIS GLY GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.815 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618 29.019	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.287 25.429 25.623 22.986 22.714 21.834 26.249 27.113 27.109	1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.18 32.42 33.00 34.60
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2231 2232 2233 2234 2235 2236 2237 2236 2237 2238	NE2 N CA C O N CA C O CB OGI CCA C O CB OGI CCA C O CB OG CB OG CB OG N CA C O CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB O CB O	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725 14.429	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618 29.019 27.899	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.623 22.986 22.714 21.834 26.249 27.413 27.109 27.560	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42 33.00 34.60 36.16
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2236	NE2 N CA C O N CA C O CB OGI CG2 N CA C O CB OGI CG2 N CA C O CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB CCB OG CB CCB CCB OG CB CCB CCB CCB CCB CCB CCB CCB CCB CCB	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725 14.429 15.998 17.304	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618 29.019 27.899 31.083 31.659	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.2714 21.834 26.2986 27.119 27.109 27.560 27.808 27.359	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.95 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42 33.00 34.60 36.16 32.75 32.45
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2224 2225 2226 2227 2228 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2236 2237 2238 2239 2236 2237 2238 2239 2230 2231	NE2 N CA C O N CA C O CB OGI CCB OG CB CG CD CB	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725 14.429 15.998 17.304 17.600	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.137 29.199 29.632 29.618 29.019 27.899 31.083 31.659 30.954	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.228 25.21 25.21 26.23 27.14 21.834 26.249 27.413 27.109 27.560 27.808 27.359 26.056	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42 33.00 34.60 36.16 32.75 32.45 32.33
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2232 2233 2234 2235 2236 2237 2238 2237 2238 2237 2238 2239 2231 2232 2232 2231 2232 2231 2232 2238 2229 2230 2231 2231 2232 2238 2239 2230 2231 2231 2232 2238 2239 2230 2231 2232 2233 2234 2235 2236 2237 2238 2238 2239 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2230 2231 2232 2232 2233 2234 2235 2236 2237 2238 2239 2230 2231 2232 2232 2233 2234 2235 2236 2237 2238 2239 2230 2231 2232 2232 2232 2233 2234 2235 2236 2237 2238 2239 2230 2231 2232 2238 2239 2230 2231 2232 2238 2239 2238 2239 2230 2231 2232 2238 2239 2236 2237 2238 2238 2239 2236 2237 2238 2238 2239 2236 2237 2238 2238 2239 2238 2239 2238 2238 2239 2238 2238 2238 2238 2238 2238 2238 2240 2241 2242	NE2 N CA C O O CB OGI CCA C O CB OGI CCA C O CB OG CB OG CB O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG N CA C O CB OG CB OG CB OG N CA C O CB OG CB OG CB OG N CA C O CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB OG CB CG CD N	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725 14.429 15.998 17.304 17.600 13.936	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.601 27.519 29.115 28.137 29.199 29.632 29.618 29.019 27.899 31.083 31.659 30.954 29.674	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.287 25.623 22.986 22.714 21.834 26.249 27.109 27.560 27.808 27.559 26.056 26.262	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.26 30.59 30.62 31.05 31.44 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.62 31.06 30.43 29.95 29.62 29.18 32.42 33.00 34.60 36.16 32.75 32.45 32.45 32.33 35.22
2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2222 2224 2225 2226 2227 2228 2229 2231 2231 2232 2233 2234 2235 2234 2235 2236 2237 2238 2237	NE2 N CA C O N CA C O CB OGI CCB OG CB CG CD CB	HIS GLY GLY GLY THR THR THR THR THR THR THR THR THR THR	A A A A A A A A A A A A A A A A A A A	303 304 304 304 304 305 305 305 305 305 305 305 305	16.084 17.545 18.260 19.387 20.568 19.016 19.924 20.526 21.218 19.167 18.143 18.511 20.310 20.823 20.129 20.713 22.333 22.887 18.828 18.054 17.049 16.500 17.330 16.320 18.318 16.948 16.079 14.725 14.429 15.998 17.304 17.600	23.516 20.716 21.378 22.299 21.962 23.502 24.486 25.444 26.374 25.300 26.079 24.357 25.280 26.156 27.510 28.556 26.315 26.873 27.513 28.750 28.137 29.199 29.632 29.618 29.019 27.899 31.083 31.659 30.954	17.084 21.499 22.551 22.113 22.172 21.704 21.163 22.160 21.730 20.073 20.073 20.073 20.709 19.074 23.448 24.492 24.521 24.800 24.382 25.564 24.218 24.228 25.21 25.21 26.23 27.14 21.834 26.249 27.413 27.109 27.560 27.808 27.359 26.056	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.18 30.19 31.04 30.87 30.29 30.59 30.59 30.62 31.05 31.44 32.41 30.77 30.65 29.52 29.40 28.21 29.55 29.38 30.00 30.63 30

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2245	0	ALA	Α	309	11.768	26.998	25.490	1.00	36.25
2246	CB	ALA	A	309	11.839	30.245	25.132	1.00	36.27
2247	N	GLY	A	310	13.473	27.703	24.205	1.00	35.30
2248	CA	GLY	A	310	13.536	26.509	23.394	1.00	
2249	С	GLY	A	310	13.761	25.233	24.178		34.58
2250	10	GLY	A	310	13.020			1.00	35.19
2251	l N	ASP	A	311		24.257	24.002	1.00	34.63
2252	CA		$\overline{}$		14.748	25.228	25.076	1.00	36.16
		ASP	A	311	15.095	24.027	25.837	1.00	37.35
2253	C	ASP	A	311	13.984	23.622	26.798	1.00	37.28
2254	0	ASP	A	311	13.703	22.442	26.979	1.00	35.57
2255	CB	ASP	A	311	16.425	24.187	26.566	1.00	38.20
2256	CG	ASP	Α	311	17.609	24.388	25.642	1.00	39.32
2257	ODI	ASP	Ā	311	18.776	24.372	26.101	1.00	38.85
2258	OD2	ASP	A	311	17.397	24.571	24.423	1.00	40.40
2259	N	LYS	A	312	13.300	24.604			
2260	CA	LYS	A	312			27.377	1.00	38.66
2261	C				12.173	24.347	28.260	1.00	39.64
		LYS	A	312	11.110	23.515	27.545	1.00	39.36
2262	0	LYS	Α	312	10.686	22.467	28.007	1.00	39.26
2263	CB ·	LYS	A	312	11.532	25.663	28.693	1.00	41.64
2264	CG	LYS	A	312	12.133	26.320	29.920	1.00	43.75
2265	CD	LYS	A	312	11.035	26.838	30.841	1.00	45.48
2266	CE	LYS	A	312	11.461	28.114	31.550	1.00	47.04
2267	NZ	LYS	A	312	10.296	28.741	32.255	1.00	48.24
2268	N	ALA	A	313	10.680	24.032	26.398	1.00	
2269	CA	ALA	A	313	9.625				39.30
2270	c	ALA	TA A	313		23.450	25.595	1.00	38.76
2271	 6 -		_		9.893	22.012	25.216	1.00	39.23
		ALA	<u> </u>	313	9.032	21.158	25.441	1.00	40.34
2272	СВ	ALA	A	313	9.401	24.290	24.340	1.00	38.69
2273	N ·	GLU	A	314	11.061	21.713	24.651	1.00	39.89
2274	CA	GLU	Α	314	11.354	20.344	24.246	1.00	40.45
2275	C	GLU	Α	314	11.322	19.373	25.418	1.00	40.84
2276	0	GLU	Α	314	10.768	18.279	25.320	1.00	40.97
2277	СВ	GLU	A	314	12.721	20.240	23.564	1.00	
2278	CG	GLU	A	314	12.961	18.830	23.011		40.99
2279	CD	GLU	Ā	314				1.00	40.54
2280	OEI		+		14.188	18.798	22.132	1.00	40.81
2281		GLU	A	314	14.953	19.783	22.149	1.00	40.94
	OE2	GLU	A	314	14.361	17.791	21.423	1.00	41.62
2282	N	ALA	Α	315	11.963	19.767	26.514	1.00	41.04
2283	CA	ALA	A	315	11.937	18.989	27.740	1.00	41.54
2284	C	ALA	A	315	10.495	18.632	28.093	1.00	41.87
2285	0	ALA	Α	315	10.175	17.464	28.313	1.00	41.76
2286	CB	ALA	A	315	12.588	19.759	28.877	1.00	41.38
2287	N	GLN	A	316	9.621	19.640	28.103	1.00	42.34
2288	CA	GLN	A	316	8.217	19.395	28.399	1.00	
2289	c	GLN	A	316	7.595	18.404			43.86
2290	0	GLN	L Â	316	6.988		27.423	1.00	44.27
2291	СВ					17.400	27.803	1.00	43.96
		GLN	A	316	7.412	20.695	28.386	1.00	44.58
2292	CG	GLN	Α	316	5.971	20.493	28.849	1.00	46.52
2293	CD	GLN	Α	316	5.893	20.074	30.312	1.00	47.74
2294	OEI	GLN	Α	316	6.524	20.669	31.190	1.00	47.58
2295	NE2	GLN	Α	316	5.130	19.006	30.546	1.00	47.69
2296	Z	ALA	Α	317	7.864	18.596	26.130	1.00	44.25
2297	CA	ALA	A	317	7.349	17.688	25.118	1.00	44.89
2298	C	ALA	Ā	317	7.812	16.258	25.346		
2299	ō	ALA	A	317	7.103			1.00	44.92
2300	СВ	ALA				15.311	24.979	1.00	44.45
			A	317	7.760	18.188	23.734	1.00	45.79
2301	N	VAL	Α	318	9.008	16.071	25.897	1.00	45.09
2302	CA	VAL	Α .	318	9.525	14.735	26.187	1.00	45.96
2303	С	VAL ·	A	318	8.773	14.126	27.372	1.00	46.69
2304	0	VAL	Α	318	8.442	12.943	27.383	1.00	46.39
2305	СВ	VAL	A	318	11.038	14.753	26.459	1.00	45.52
2306	CGI	VAL	A	318	11.526	13.458	27.096	1.00	45.04
2307	CG2	VAL	A	318	11.806	15.009	25.166		
2308	N N	LYS						1.00	44.92
			A	319	8.439	14.958	28.352	1.00	47.66
2309	CA	LYS	Α	319	7.685	14.521	29.517	1.00	49.06
2310	C	LYS	A	319	6.271	14.119	29.128	1.00	49.78
2311	<u> </u>	LYS	A	319	5.722	13.163	29.680	1.00	50.92
2312	CB	LYS	Α	319	7.689	15.604	30.598	1.00	49.56

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2313	Tcc	LYS		1 210	10003	1 15 030	131.5		·
2314	CD	LYS	I A	319	9.083	15.338	31.176	1.00	50.90
2315	CE	LYS	 ^	319	9.207	16.011	33.668	1.00	52.01
2316	NZ	LYS	A	319	9.356	16.912	34.850	1.00	53.29
2317	N	THR	A	320	5.698	14.790	28.141	1.00	49.61
2318	CA	THR	A	320	4.377	14.478	27.627	1.00	49.41
2319	С	THR	Α	320	4.383	13.153	26.878	1.00	50.24
2320	0	THR	A	320	3.445	12.365	27.009	1.00	51.00
2321	CB	THR	A	320	3.874	15.591	26.688	1.00	48.97
2322	OG1	THR	A	320	3.544	16.754	27.464	1.00	48.43
2323	CG2	THR	A	320	2.655	15.160	25.895	1.00	48.62
2324	N O	ILE	A	321	5.396	12.928	26.060	1.00	51.08
2325	CA C	ILE	A	321	5.482	11.731	25.236	1.00	52.44
2327	0	ILE	- A	321	5.988	10.521	25.994	1.00	53.78
2328	СВ	ILE	- A	321	5.453	9.413	25.850	1.00	54.21
2329	CGI	ILE	A	321	6.389	11.992	24.012	1.00	52.16
2330	CG2	ILE	TA A	321	5.814 6.559	13.143	23.185	1.00	52.52
2331	CDI	ILE	A	321	4.434	10.745	23.168	1.00	51.63
2332	N	PHE	A	322	7.062	10.686	26.764	1.00	53.06
2333	CA	PHE	A	322	7.623	9.536	27.482	1.00	55.32
2334	С	PHE	Α	322	6.854	9.233	28.751	1.00	58.22
2335	0	PHE	A	322	6.709	8.063	29.131	1.00	58.09
2336	СВ	PHE	A	322	9.129	9.740	27.695	1.00	56.37
2337	CG	PHE	Α	322	9.837	9.510	26.375	1.00	56.26
2338	CDI	PHE	A	322	9.909	10.521	25.438	1.00	56.23
2339	CD2	PHE	Α	322	10.364	8.269	26.073	1.00	56.06
2340	CEI	PHE	A	322	10.527	10.306	24.219	1.00	56.27
2341	CE2	PHE	<u> </u>	322	10.981	8.052	24.857	1.00	56.46
2342	CZ	PHE	A	322	11.063	9.069	23.926	1.00	56.24
2343	N CA	GLY	A	323	6.262	10.257	29.358	1.00	59.40
2345	CA	GLY	 ^ -	323	5.449	10.098	30.548	1.00	61.56
2346	10	GLY	A	323	7.035	9.479	31.715	1.00	63.08
2347	N	GLU	Â	324	5.911	8.211	32.346 31.997	1.00	62.72
2348	CA	GLU	Ā	324	6.532	7.504	33.112	1.00	64.65
2349	C	GLU	A	324	7.932	7.025	32.757	1.00	65.94
2350	0	GLU	A	324	8.799	6.936	33.631	1.00	66.15
2351	CB	GLU	A	324	5.653	6.337	33.561	1.00	67.61
2352	CG	GLU	A	324	4.724	6.673	34.715	1.00	69.11
2353	CD	GLU	A	324	3.266	6.766	34.309	1.00	70.22
2354	OEI	GLU	Α	324	2.919	7.668	33.508	1.00	70.44
2355	OE2	GLU	A	324	2.459	5.940	34.799	1.00	70.43
2356	N .	ALA	A	325	8.170	6.761	31.475	1.00	65.16
2357	CA	ALA	A	325	9.469	6.309	31.002	1.00	64.72
2358	\ <u>c</u>	ALA	A	325	10.416	7.477	30.754	1.00	64.29
2359 2360	O	ALA	A	325	11.565	7.276	30.360	1.00	63.88
2361	CB N	ALA	A	325	9.326	5.470	29.739	1.00	64.73
2362	CA	ALA	A	326 326	10.745	9.905	31.052	1.00	63.99
2363	C	ALA	A	326	12.013	9.906	31.759	1.00	63.96
2364	ō	ALA	Ä	326	12.982	10.590	31.423	1.00	65.46
2365	СВ	ALA	A	326	9.892	11.111	31.296	1.00	63.23
2366	N	SER	A	327	12.034	9.169	32.856	1.00	64.91
2367	CA	SER	A	327	13.195	9.076	33.724	1.00	64.87
2368	С	SER	Α	327	14.168	8.006	33.253	1.00	64.31
2369	0	SER	A	327	15.363	8.062	-33.553	1.00	65.08
2370	СВ	SER	Α	327	12.725	8.745	35.152	1.00	65.49
2371	OG	SER	Α	327	.11.692	7.767	35.086	1.00	65.92
2372	N	ARG	Α	328	13.663	7.014	32.526	1.00	63.15
2373	CA	ARG	A	328	14.520	5.936	32.040	1.00	61.76
2374	C	ARG	Α	328	15.101	6.250	30.671	1.00	59.76
2375	0	ARG	A	328	16.033	5.564	30.233	1.00	60.32
2376	CB	ARG	A	328	13.764	4.609	32.025	1.00	62.86
2377	CC	ARG	A	328	12.866	4.373	30.827	1.00	64.26
2378	CD	ARG	A	328	11.855	3.269	31.095	1.00	65.68
2379	NE CZ	ARG	A	328 328	11.950	2.167	30.144	1.00	66.47
		1.74.0	^		11.064	1.187	30.020	1.00	66.85

				ΰ	14/1			•	
2381	NHI	ARG	A	328	9.983	1.158	30.792	1.00	67.11
2382	NH2	ARG	A	328	11.246	0.229	29.119	1.00	67.06
2383	N	VAL	A	329	14.570	7.262	29.985	1.00	56.58
2384	CA	VAL	A	329	15.070	7 594	28.651		
2385	C	VAL	A	329	16.235			1.00	52.91
2386	Ō	VAL	A			8.569	28.713	1.00	51.13
2387	СВ			329	16.259	9.466	29.550	1.00	50.77
		VAL	A	329	13.964	8.144	27.740	1.00	52.48
2388	CGI	VAL	I A	329	13.541	9.544	28.160	1.00	51.82
2389	CG2	VAL	A	329	14.411	8.119	26.284	1.00	51.86
2390	N	LEU	A	330	17.217	8.350	27.844	1.00	48.78
2391	CA	LEU	Α	330	18.386	9.205	27.748	1.00	46.67
2392	C	LEU	Α	330	18.182	10.298	26.701		
2393	0	LEU	A	330				1.00	45.85
2394	СВ				17.791	10.038	25.560	1.00	45.82
2395		LEU	A	330	19.627	8.379	27.404	1.00	46.55
	CG	LEU	A	330	20.032	7.297	28.410	1.00	46.63
2396	CDI	LEU	A	330	21.221	6.501	27.896	1.00	46.07
2397	CD2	LEU	A	330	20.345	7.902	29.769	1.00	45.97
2398	N	VAL	A	331	18.358	11.547	27.118	1.00	43.84
2399	CA	VAL	A	331	18.211	12.702	26.266	1.00	
2400	С	VAL	A	331	19.460				42.46
2401	0	VAL	A			13.580	26.316	1.00	41.99
2402	СВ			331	19.603	14.358	27.267	1.00	41.78
		VAL	A	331	17.022	13.610	26.674	1.00	42.13
2403	CGI	VAL	A	331	16.686	14.548	25.519	1.00	41.88
2404	CG2	VAL	A	331	15.797	12.845	27.111	1.00	41.37
2405	N	SER	A	332	20.281	13.610	25.269	1.00	41.05
2406	CA	SER	A	332	21.423	14.534	25.294	1.00	39.11
2407	С	SER	A	332	21.364	15.492	24.113	1.00	
2408	0	SER	A	332	20.643	15.253			38.45
2409	СВ						23.151	1.00	38.77
2410		SER	A	332	22.754	13.797	25.309	1.00	38.87
	OG	SER	_ A	332	22.976	13.032	24.140	1.00	38.04
2411	N	SER	A	333	22.152	16.557	24.185	1.00	37.37
2412	CA	SER	A	333	22.327	17.480	23.081	1.00	35.80
2413	C	SER	A	333	23.808	17.578	22.713	1.00	35.02
2414	0	SER	A	333	24.608	18.160	23.448	1.00	34.17
2415	CB	SER	A	333	21.803	18.883	23.391	1.00	
2416	OG	SER	A	333	22.173	19.787	22.353		35.80
2417	N	THR	Ā	334	24.153			1.00	34.77
2418	CA		+			17.125	21.506	1.00	33.66
		THR	A	334	25.523	17.226	21.031	1.00	32.68
2419	C	THR	A	334	25.890	18.626	20.566	1.00	31.79
2420	0	THR	<u> </u>	334	27.042	18.855	20.175	1.00	32.24
2421	CB	THR	A	334	25.794	16.248	19.874	1.00	33.55
2422	OGI	THR	A	334	24.632	16.210	19.035	1.00	35.08
2423	CG2	THR	A	334	26.091	14.854	20.395	1.00	33.98
2424	N	LYS	A	335	24.966	19.571			
2425	CA	LYS				· -	20.620	1.00	29.86
2426			A	335	25.130	20.954	20.255	1.00	28.11
	C	LYS	A	335	25.909	21.722	21.323	1.00	28.33
2427	0	LYS	A	335	26.403	22.833	21.112	1.00	28.49
2428	CB	LYS	Α	335	23.766	21.632	20.065	1.00	27.41
2429	CG	LYS	Α	335	22.985	21.211	18.848	1.00	26.22
2430	CD	LYS	A	335	21.797	22.117	18.573	1.00	25.45
2431	CE	LYS	A	335	21.096	21.719	17.274		24.18
2432	NZ	LYS	Ā	335	20.513	20.357		1.00	
2433	N	-	,				17.370	1.00	22.35
2434		SER	A	336	26.063	21.085	22.485	1.00	27.13
	CA	SER	A	336	26.898	21.586	23.553	1.00	26.20
2435	C	SER	A	336	28.357	21.641	23.098	1.00	25.15
2436	0	SER	Α	336	29.092	22.541	23.491	1.00	24.26
2437	CB	SER	A	336	26.778	20.723	24.803	1.00	26.48
2438	OG	SER	Α	336	26.951	19.355	24.499	1.00	26.89
2439	N	MET	A	337	28.738	20.692			
2440	CA					Ì	22.253	1.00	24.47
		MET	A	337	30.088	20.611	21.733	1.00	25.03
2441	<u>c</u>	MET	Α	337	30.227	21.244	20.352	1.00	25.59
2442	0	MET	Α	337	31.126	22.030	20.063	1.00	27.27
2443	CB	MET	Α	337	30.505	19.123	21.646	1.00	23.76
2444	CG	MET	A	337	30.336	18.420	22.987	1.00	22.85
2445	SD	MET	A	337	30.647	16.670	22.961	1.00	
2446	CE	MET	Ā	337	29.019				22.05
2447	N N					15.966	22.795	1.00	20.77
		THR	Α	338	29.335	20.877	19.481	1.00	24.93
2448	CA	THR	Α	338	29.336	21.064	18.043	1.00	24.13



2459 C					22.0	20.220	22.406	17.637	1.00	24.04
1451 CB										
1452 OGI	2450									
1453 CG2 THR	2451	CB	THR	A	338	28.506	19.864			
1954 N	2452	OGI	THR	A	338	29.316	18.985	16.726	1.00	22.42
1845	2453	CG2	THR	A	338	27.262	20.277	16.790	1.00	23.55
2455 CA GLY A 339 27.098 22.144 18.051 1.00 21.84 2456 C GLY A 339 25.883 22.655 1.6855 1.00 21.79 2457 O GLY A 339 25.883 22.655 1.6855 1.00 21.79 2458 N HIS A 340 25.078 24.779 1.6809 1.00 20.53 2559 CA HIS A 340 25.078 24.779 1.6809 1.00 20.53 2460 C HIS A 340 24.575 24.559 1.5609 1.00 21.54 2461 O HIS A 340 24.575 24.559 1.4693 1.00 21.54 2462 CB HIS A 340 24.575 24.559 1.6248 1.00 21.51 2463 CG HIS A 340 22.858 25.560 16.248 1.00 24.70 2464 NDI HIS A 340 21.257 23.559 1.00 24.70 2465 CD2 HIS A 340 21.254 24.220 14.915 1.00 24.68 2466 CCD HIS A 340 30.258 25.566 1.019 1.00 24.68 2467 NEZ HIS A 340 19.352 24.101 14.797 1.00 25.55 2468 N LEU A 341 24.425 23.445 1.100 25.55 2469 CA LEU A 341 24.425 23.446 11.555 1.00 22.55 2470 C LEU A 341 24.425 23.864 11.655 1.00 20.87 2471 C LEU A 341 23.246 23.864 11.655 1.00 20.87 2472 CB LEU A 341 23.246 23.864 11.655 1.00 20.87 2473 CG LEU A 341 23.246 23.864 11.655 1.00 20.87 2474 CD1 LEU A 341 23.246 23.866 10.245 10.00 20.87 2476 N LEU A 341 23.246 23.866 10.255 10.00 20.87 2477 CA LEU A 341 23.245 23.896 10.245 10.00 20.87 2478 CD2 LEU A 341 23.246 23.896 10.245 10.00 20.87 2478 CD2 LEU A 341 23.246 23.896 10.245 10.00 20.87 2477 CA LEU A 341 23.245 23.896 10.245 10.00 20.87 2478 CD2 LEU A 341 23.245 23.896 10.245 10.00 20.80 2479 CD3 LEU A 341 23.245 23.896 10.245 10.00 20.80 2479 CD3 LEU A 342 20.091 20.905 20.905 10.00 20.905 2488 CD3 LEU A 342 20.905					339	27.753	22.870	18.368	1.00	24.13
2456 C										
2558 N HIS A 340 25.088 22.635 16.865 1.00 21.79										
2558 N				-						
2.650										
2460 C HIS A 340 24.257 24.569 14.493 1.00 21.15	2458	N	HIS	Α	340	25.078	24.779			
2461	2459	CA	HIS	Α	340	23.911	24.536	15.968	1.00	
2460	2460	С	HIS	A	340	24.257	24.569	14.493	1.00	21.15
2402 CB					340	24.500	25.668	13.973	1.00	21.62
2463 CG										
2464 ND1 HIS A 340 21.254 24.270 14.915 1.00 25.46 2465 CD2 HIS A 340 20.258 25.566 16.319 1.00 24.88 2466 CE1 HIS A 340 19.332 24.819 15.640 1.00 22.56 2467 NE2 HIS A 340 19.332 24.819 15.640 1.00 25.55 2468 N LEU A 341 24.425 23.446 12.332 1.00 21.78 2469 CA LEU A 341 24.425 23.446 12.332 1.00 21.78 2470 C LEU A 341 24.425 23.446 11.355 1.00 20.67 2471 O LEU A 341 23.264 23.596 10.245 1.00 20.67 2471 O LEU A 341 24.325 23.446 11.455 1.00 20.67 2472 CB LEU A 341 24.325 23.446 11.455 1.00 20.67 2473 CG LEU A 341 24.393 22.111 11.840 1.00 22.08 2474 CD1 LEU A 341 27.036 20.962 11.051 1.00 22.08 2475 CD2 LEU A 341 27.036 20.962 11.051 1.00 22.21 2476 N LEU A 342 22.235 24.517 12.005 1.00 22.72 2477 CA LEU A 342 22.235 24.517 12.005 1.00 19.56 2478 C LEU A 342 20.559 23.973 10.240 1.00 18.01 2479 O LEU A 342 20.559 23.973 10.240 1.00 18.01 2479 O LEU A 342 20.559 23.973 10.240 1.00 18.01 2480 CB LEU A 342 20.595 23.973 10.240 1.00 18.01 2481 CG LEU A 342 22.146 77.319 11.515 1.00 16.80 2483 CD2 LEU A 342 22.146 77.319 11.515 1.00 16.80 2484 CG LEU A 342 22.146 77.319 11.515 1.00 16.80 2485 CD LEU A 342 22.146 77.319 17.515 1.00 17.73 2486 CB LEU A 342 22.146 77.319 17.515 1.00 17.73 2487 CO LEU A 342 22.146 77.319 17.515 1.00 15.76 2488 CG LEU A 342 22.146 77.319 17.515 1.00 15.76 2488 CG LEU A 342 22.146 77.319 17.515 1.00 17.73 2489 CG LEU A 342 22.346 32.946 32.947 32.940 32.940 32.940 32.940 32.940 32.940 32.940 32.940 32.940 32.940 32.940 3										
2465 CD2 HIS A 340 20.258 25.566 16.319 1.00 24.38 2466 CE1 HIS A 340 19.955 24.014 14.797 1.00 25.60 2560 CE2 HIS A 340 19.955 24.014 14.797 1.00 25.60 2467 NE2 HIS A 340 19.932 24.819 15.640 1.00 25.55 2468 N LEU A 341 24.136 23.463 13.765 1.00 21.78 2469 CA LEU A 341 24.136 23.463 13.765 1.00 21.78 2470 C LEU A 341 23.246 23.864 12.332 1.00 21.51 2471 O LEU A 341 23.246 23.869 10.245 1.00 20.67 2471 O LEU A 341 24.939 22.111 11.840 1.00 22.08 2473 CB LEU A 341 26.253 21.519 12.279 1.00 23.06 2473 CB LEU A 341 26.253 21.519 12.279 1.00 23.06 2474 CD1 LEU A 341 27.036 20.962 11.093 1.00 22.21 2475 CD2 LEU A 341 27.124 22.487 31.058 1.00 23.72 2476 N LEU A 342 21.091 24.989 11.211 10.00 18.26 2477 CA LEU A 342 21.091 24.989 11.211 10.00 18.26 2478 C LEU A 342 20.095 22.884 10.652 1.00 18.01 2479 O LEU A 342 20.095 22.884 10.652 1.00 18.01 2480 CB LEU A 342 21.537 26.296 10.539 1.00 17.17 2481 CG LEU A 342 21.137 26.296 10.539 1.00 17.17 2483 CD2 LEU A 342 22.711 28.519 10.799 1.00 15.66 2483 CD2 LEU A 342 22.711 28.519 10.799 1.00 15.66 2484 N GLY A 343 20.749 24.167 18.940 1.00 18.01 2485 CA CLU A 342 22.711 28.519 10.799 1.00 15.66 2486 CG LEU A 342 22.711 28.519 10.799 1.00 15.66 2486 CG LEU A 342 22.711 28.519 10.799 1.00 15.66 2487 O GLY A 343 20.749 24.167 18.940 1.00 19.01 2488 CA CLU A 342 22.711 28.519 10.09 10.00 15.76 2489 CA ALA A 344 22.809 20.916 7.502 1.00 19.00 2489 CA CLU A 342										
2466 CEI HIS A 340 19.955 24.014 14.797 1.00 25.50 2467 NE2 HIS A 340 19.332 24.819 15.640 1.00 25.55 2468 N LEU A 341 24.156 23.463 13.765 1.00 21.78 2469 CA LEU A 341 24.156 23.464 12.332 1.00 21.51 2470 C LEU A 341 24.425 23.446 12.332 1.00 21.51 2471 O LEU A 341 23.246 23.966 10.245 1.00 20.67 2471 O LEU A 341 23.246 23.966 10.245 1.00 20.67 2471 O LEU A 341 23.264 23.996 10.245 1.00 20.80 2473 CG LEU A 341 26.253 21.519 12.279 1.00 23.06 2474 CD1 LEU A 341 26.253 21.519 12.279 1.00 23.06 2475 CD2 LEU A 341 27.036 20.962 11.093 1.00 23.76 2476 N LEU A 342 22.235 24.517 12.005 1.00 23.72 2476 N LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 20.959 23.973 10.240 1.00 18.26 2478 C LEU A 342 20.959 23.973 10.240 1.00 18.01 2480 CB LEU A 342 21.537 26.296 10.539 1.00 17.17 2481 CG LEU A 342 22.146 27.319 11.515 1.00 16.80 2483 CD1 LEU A 342 21.099 27.764 12.537 1.00 17.73 2484 CD1 LEU A 342 22.146 27.319 11.515 1.00 16.76 2483 CD2 LEU A 342 22.146 27.319 11.515 1.00 16.76 2483 CD2 LEU A 342 22.146 27.319 11.515 1.00 16.76 2483 CD3 LEU A 342 22.146 27.319 11.515 1.00 16.76 2484 CD LEU A 342 22.146 27.319 11.515 1.00 16.76 2485 CA ALA A 344 22.655 21.769 8.575 1.00 17.73 2486 CD LEU A 342 22.146 27.319 11.515 1.00 16.76 2487 O GLY A 343 20.241 23.256 7.997 1.00 15.76 2488 CD LEU A 342 22.467 23.388 23.565 1.00 19.79 2489 CA ALA A 344 22.655 21.769 8.575 1.00 19.79 2489 CA ALA A 344 22.655 21.769 8.575 1.00 19.90 2487 O GLY A	2464	NDI								
2467 NE2 HIS A 340 19.332 24.819 15.640 1.00 25.55	2465	CD2	HIS	A						
2468 N	2466	CEI	HIS	Α	340	19.955	24.014	14.797		
2468 N LEU A 341 24.136 23.463 13.765 1.00 21.78 2469 CA LEU A 341 24.25 23.864 11.455 1.00 20.67 2471 O LEU A 341 23.246 23.864 11.455 1.00 20.67 2471 O LEU A 341 23.266 23.864 11.455 1.00 20.67 2471 O LEU A 341 23.264 23.596 10.245 1.00 20.80 2472 CB LEU A 341 24.939 22.11 11.880 1.00 22.08 2473 CG LEU A 341 26.253 21.519 12.279 1.00 23.06 2474 CD1 LEU A 341 27.124 22.487 13.058 1.00 23.72 2475 CD2 LEU A 341 27.124 22.487 13.058 1.00 23.72 2476 N LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 22.235 24.517 12.005 1.00 19.56 2478 C LEU A 342 20.959 23.973 10.240 1.00 18.01 2479 O LEU A 342 20.959 23.973 10.240 1.00 18.01 2480 CB LEU A 342 21.537 26.296 10.539 1.00 17.17 2481 CG LEU A 342 22.146 27.319 11.515 1.00 16.56 2483 CD1 LEU A 342 21.099 27.764 12.537 1.00 17.17 2481 CG LEU A 342 21.099 27.764 12.537 1.00 17.23 2484 N GLY A 343 20.241 23.256 7.937 1.00 17.23 2484 N GLY A 343 20.241 23.256 7.937 1.00 17.23 2485 CD1 LEU A 342 21.999 27.764 12.537 1.00 17.23 2486 C GLY A 343 20.241 23.256 7.937 1.00 17.23 2487 O CLA A 344 22.265 21.769 8.575 1.00 17.23 2488 N GLY A 343 20.256 21.769 8.575 1.00 17.23 2489 CA A A 344 22.265 21.769 8.575 1.00 17.23 2481 N GLY A 343 20.256 21.769 8.575 1.00 17.98 2485 CA GLA A 344 22.265 21.769 8.575 1.00 17.98 2486 C GLY A 343 20.256 21.769 8.575 1.00 17.98 2487 O GLA A 344 22.265 21.769 8.575 1.00 17.98 2489 CA GLA A 344 22.265 21.769 8.575	2467	NE2	HIS	A	340	19.332	24.819	15.640	1.00	25.55
2469 CA LEU A 341 24.425 23.446 12.332 1.00 21.51 2470 C LEU A 341 23.246 23.864 11.455 1.00 20.67 2471 O LEU A 341 23.246 23.864 11.455 1.00 20.80 2472 CB LEU A 341 23.264 23.865 11.455 1.00 20.80 2473 CG LEU A 341 24.939 22.111 11.840 1.00 22.08 2474 CDI LEU A 341 27.036 20.962 11.993 1.00 22.01 2475 CD2 LEU A 341 27.036 20.962 11.993 1.00 22.21 2476 N LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 20.959 23.884 10.652 1.00 18.01 2479 O LEU A 342 20.995 23.884 10.652 1.00 18.01 2480 CB LEU A 342 20.995 23.884 10.652 1.00 18.33 2480 CB LEU A 342 22.146 37.319 11.515 1.00 16.80 2482 CD1 LEU A 342 22.111 28.519 10.799 1.00 16.76 2483 CD2 LEU A 342 22.711 28.519 10.799 1.00 16.76 2484 N GLY A 343 20.749 24.167 8.940 1.00 16.76 2485 CC GLY A 343 20.241 23.256 7.937 1.00 17.23 2486 C GLY A 343 20.241 23.256 7.937 1.00 17.23 2487 O CAA A 344 22.2711 28.519 0.799 1.00 16.76 2488 N GLY A 343 20.241 23.256 7.937 1.00 17.93 2489 CA ALA A 344 22.805 20.916 7.302 1.00 18.05 2487 O GLY A 343 20.249 24.167 8.940 1.00 16.41 2489 CA ALA A 344 22.805 20.916 7.302 1.00 17.39 2489 CA ALA A 344 22.805 20.916 7.302 1.00 17.39 2489 CA ALA A 344 22.805 20.916 7.302 1.00 19.91 2499 CA ALA A 344 22.805 20.916 7.302 1.00 19.91 2499 CA ALA A 344 22.805 20.916 7.302 1.00 19.19 2499 CA ALA A 344 22.805 20.916 7.302 1.00 19.19 2499 CA ALA A 344 22.					341	24.136	23.463	13.765	1.00	21.78
2470 C LEU A 341 23.246 23.864 11.455 1.00 20.67 2471 O LEU A 341 23.266 23.866 10.245 1.00 20.80 20.80 2172 CB LEU A 341 23.266 23.596 10.245 1.00 22.08 2473 CB LEU A 341 26.253 21.11 11.840 1.00 22.08 2473 CG LEU A 341 26.253 21.1519 112.279 1.00 23.06 22.747 CD1 LEU A 341 27.036 20.962 11.093 1.00 22.21 2475 CD2 LEU A 341 27.036 20.962 11.093 1.00 23.21 2476 N LEU A 342 22.235 24.517 12.005 1.00 19.56 2476 N LEU A 342 22.235 24.517 12.005 1.00 19.56 2477 CA LEU A 342 22.235 24.517 12.005 1.00 19.56 2478 C LEU A 342 20.959 23.973 10.240 1.00 18.26 2478 C LEU A 342 20.959 23.973 10.240 1.00 18.26 2478 C LEU A 342 20.959 23.973 10.240 1.00 18.26 2478 C LEU A 342 20.995 22.884 10.552 1.00 18.31 2480 CB LEU A 342 21.537 26.296 10.539 1.00 17.17 2481 CG LEU A 342 22.146 27.319 11.515 1.00 17.17 2481 CG LEU A 342 22.146 27.319 11.515 1.00 16.76 2483 CD1 LEU A 342 22.146 27.319 11.515 1.00 16.76 2483 CD2 LEU A 343 22.1099 27.764 12.537 1.00 16.76 2485 CA GLY A 343 20.241 23.256 7.937 1.00 16.41 2485 CA GLY A 343 20.241 23.256 7.937 1.00 16.41 2485 CA GLY A 343 20.241 23.256 7.937 1.00 16.41 2485 CA GLY A 343 20.241 23.256 7.937 1.00 15.90 2486 C GLY A 343 20.241 23.256 7.937 1.00 15.90 15.90 2486 C GLY A 343 20.241 23.256 7.937 1.00 15.90 12.487 O GLY A 343 20.241 23.256 7.937 1.00 15.90 12.488 N ALA A 344 22.065 20.916 7.502 1.00 18.05 2488 N ALA A 344 22.069 20.916 7.502 1.00 18.05 2489 C A ALA A 344 22.069 20.916 7.502 1.00 18.05 2489 C A ALA A 344 22.069 20.916 7.502 1.00 18.05 2489 C A ALA A 344 22.069 20.916 7.502 1.00 18.05 2489 C A ALA A 344 22.069 20.916 7.502 1.00 18.05 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.20 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.20 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.91 20.92 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C ALA A 344 22.809 20.916 7.502 1.00 19.37 2490 C									1.00	21.51
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2477 CA LEU A 342 21.091 24.989 11.221 1.00 18.25					342	22.235	24.517	12.005	1.00	19.56
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2484 N				A	342	21.099	27.764	12.537	1.00	17.23
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2491 O ALA A 344 22.784 18.593 10.077 1.00 20.60 2492 CB ALA A 344 24.297 20.832 8.466 1.00 18.23 2493 N ALA A 345 22.134 20.542 10.974 1.00 19.41 2494 CA ALA A 345 21.2900 19.977 12.300 1.00 19.17 2495 C ALA A 345 21.211 18.626 12.284 1.00 19.03 2496 O ALA A 345 21.746 17.655 12.825 1.00 19.54 2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.05 2499 CA GLY A 346 19.302	2490	С	ALA	A	344	22.583	19.807	9.966	1.00	19.20
2492 CB ALA A 344 24.297 20.832 8.466 1.00 18.23 2493 N ALA A 345 22.134 20.542 10.974 1.00 19.41 2494 CA ALA A 345 21.900 19.977 12.300 1.00 19.17 2495 C ALA A 345 21.211 18.626 12.284 1.00 19.03 2496 O ALA A 345 21.746 17.655 12.825 1.00 19.54 2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.05 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 19.819					344	22.784	18.593	10.077	1.00	20.60
2492 N ALA A 345 22.134 20.542 10.974 1.00 19.41 2494 CA ALA A 345 21.900 19.977 12.300 1.00 19.17 2495 C ALA A 345 21.211 18.626 12.284 1.00 19.03 2496 O ALA A 345 21.746 17.655 12.825 1.00 19.54 2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.37 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819							20.832	8.466	1.00	18.23
2493 R ALA A 345 21.900 19.977 12.300 1.00 19.17 2494 CA ALA A 345 21.911 18.626 12.284 1.00 19.03 2496 O ALA A 345 21.746 17.655 12.825 1.00 19.54 2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.37 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 19.819 14.936 11.171 1.00 18.83 2501 O GLY A 346 19.819										
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2495 O ALA A 345 21.746 17.655 12.825 1.00 19.54 2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.05 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01 2502 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 22.782 14.842 10.108 1.00 22.71 2505 O ALA A 347 22.859	-			-						
2497 CB ALA A 345 21.118 20.990 13.127 1.00 19.37 2498 N GLY A 346 20.031 18.481 11.700 1.00 19.05 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01 2502 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 22.782 14.842 10.108 1.00 21.04 2504 C ALA A 347 22.852 14.842 10.108 1.00 22.71 2505 O ALA A 347 22.859	2495								+	
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2498 N GLY A 346 20.031 18.481 11.700 1.00 19.05 2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01 2502 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 22.782 14.842 10.108 1.00 21.04 2504 C ALA A 347 22.782 14.842 10.108 1.00 22.71 2505 O ALA A 347 22.859 13.614 10.275 1.00 23.84 2506 CB ALA A 347 22.311	2497	СВ	ALA	A	345	21.118	20.990			
2499 CA GLY A 346 19.302 17.240 11.616 1.00 18.25 2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01 2502 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 21.683 15.439 9.228 1.00 21.04 2504 C ALA A 347 22.782 14.842 10.108 1.00 22.71 2504 C ALA A 347 22.859 13.614 10.275 1.00 23.84 2506 CB ALA A 347 22.311 16.035 7.979 1.00 19.88 2507 N VAL A 348 23.650					346	20.031	18.481	11.700	1.00	19.05
2500 C GLY A 346 20.038 16.124 10.895 1.00 18.83 2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01 2502 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 21.683 15.439 9.228 1.00 21.04 2504 C ALA A 347 22.782 14.842 10.108 1.00 22.71 2505 O ALA A 347 22.859 13.614 10.275 1.00 23.84 2505 O ALA A 347 22.311 16.035 7.979 1.00 19.88 2507 N VAL A 348 23.650 15.698 10.660 1.00 21.96 2508 CA VAL A 348 24.717	2400						17.240	11.616	1.00	18.25
2501 O GLY A 346 19.819 14.936 11.171 1.00 18.01								10.895	1.00	18.83
2501 N ALA A 347 20.907 16.443 9.944 1.00 19.83 2503 CA ALA A 347 21.683 15.439 9.228 1.00 21.04 2504 C ALA A 347 22.782 14.842 10.108 1.00 22.71 2505 O ALA A 347 22.859 13.614 10.275 1.00 23.84 2506 CB ALA A 347 22.311 16.035 7.979 1.00 19.88 2507 N VAL A 348 23.650 15.698 10.660 1.00 21.96 2508 CA VAL A 348 24.717 15.167 11.500 1.00 22.97 2509 C VAL A 348 24.116 14.420 12.684 1.00 24.48 2510 O VAL A 348 25.723		+	+							
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2505 O	2503	CA	ALA	A						
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2506 CB ALA A 347 22.311 16.035 7.979 1.00 19.88 2507 N VAL A 348 23.650 15.698 10.660 1.00 21.96 2508 CA VAL A 348 24.717 15.167 11.500 1.00 22.97 2509 C VAL A 348 24.116 14.420 12.684 1.00 24.48 2510 O VAL A 348 24.481 13.283 12.973 1.00 24.55 2511 CB VAL A 348 25.723 16.226 11.966 1.00 22.43 2512 CG1 VAL A 348 26.341 16.954 10.786 1.00 20.44 2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120		*	1		347	22.859	13.614	10.275	1.00	23.84
2507 N VAL A 348 23,650 15,698 10,660 1.00 21,96 2508 CA VAL A 348 24,717 15,167 11,500 1.00 22,97 2509 C VAL A 348 24,116 14,420 12,684 1.00 24,48 2510 O VAL A 348 24,481 13,283 12,973 1.00 24,55 2511 CB VAL A 348 25,723 16,226 11,966 1.00 22,43 2512 CG1 VAL A 348 26,341 16,954 10,786 1.00 20,44 2513 CG2 VAL A 348 25,108 17,219 12,947 1.00 22,09 2514 N GLU A 349 23,120 14,982 13,349 1.00 26,69 2515 CA GLU A 349 22,474 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.979</td> <td>1.00</td> <td>19.88</td>								7.979	1.00	19.88
2507 CA VAL A 348 24.717 15.167 11.500 1.00 22.97 2508 CA VAL A 348 24.717 15.167 11.500 1.00 22.97 2509 C VAL A 348 24.116 14.420 12.684 1.00 24.48 2510 O VAL A 348 24.481 13.283 12.973 1.00 24.55 2511 CB VAL A 348 25.723 16.226 11.966 1.00 22.43 2512 CG1 VAL A 348 26.341 16.954 10.786 1.00 20.44 2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		+								
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2510 O VAL A 348 24.481 13.283 12.973 1.00 24.55 2511 CB VAL A 348 25.723 16.226 11.966 1.00 22.43 2512 CG1 VAL A 348 26.341 16.954 10.786 1.00 20.44 2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09		+								
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2511 CB VAL A 348 25.723 16.226 11.966 1.00 22.43 2512 CG1 VAL A 348 26.341 16.954 10.786 1.00 20.44 2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09	2510	0	VAL_	A	348					
2512 CG1 VAL A 348 26.341 16.954 10.786 1.00 20.44 2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09		СВ		A	348	25.723	16.226	11.966	00.1	
2513 CG2 VAL A 348 25.108 17.219 12.947 1.00 22.09 2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09			+	+		26.341	16.954	10.786	1.00	20.44
2514 N GLU A 349 23.120 14.982 13.349 1.00 26.69 2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09									1.00	22.09
2515 CA GLU A 349 22.474 14.348 14.490 1.00 29.09										
213 CA GEO A 22 CA 14 102 1 00 20 44										
2516 C GLU A 349 21.792 13.035 14.192 1.00 29.44	_									
	2516	C	GLU	A	349	21.792	13.035	14.192	1.00	29.44

					10/	110			
2517	0	GLU	A	349	21.603	12.239	15.125	1.00	29.84
2518	CB	GLU	A	349	21.503	15.364	15.131	1.00	30.54
2519	CG	GLU	Α	349	22.309	16.556	15.629	1.00	33.46
2520	CD	GLU	A	349	21.540	17.774	16.041	1.00	35.00
2521	OEI	GLU	A	349	20.333	17.684	16.369	1.00	36.57
2522	OE2	GLU	Α	349	22.176	18.863	16.064	1.00	
2523	l N	SER	A	350	21.411	12.764	12.952	1.00	35.08
2524	CA	SER	A	350	20.905	11.481	12.516	1.00	29.09
2525	C	SER	A	350	22.049	10.458	12.529		28.77
2526	0	SER	A	350	21.839	9.297	12.841	1.00	29.04
2527	СВ	SER	A	350	20.348	11.539		1.00	29.05
2528	OG	SER	A	350	19.043	12.076	11.089	1.00	28.76
2529	N	ILE	A	351			11.069	1.00	28.97
2530	CA	ILE	A		23.246	10.918	12.176	1.00	28.95
2531	c	ILE	TA A	351	24.426	10.066	12.186	1.00	29.01
2532	10	ILE	-	351	24.801	9.724	13.627	1.00	29.32
2533	СВ		A	351	25.060	8.551	13.918	1.00	29.82
2534		ILE	A	351	25.611	10.703	11.453	1.00	28.57
	CGI	ILE	_ A	351	25.423	10.556	9.941	00.1	28.77
2535	CG2	ILE	A	351	26.940	10.091	11.861	1.00	28.44
2536	CDI	ILE	A	351	26.265	11.488	9.099	1.00	28.88
2537	N	TYR	A	352	24.714	10.695	14.530	1.00	28.96
2538	CA	TYR	A	352	25.000	10.452	15.938	1.00	29.99
2539	C	TYR	Α .	352	24.004	9.479	16.562	1.00	30.75
2540	0	TYR	_ A	352	24.407	8.671	17.391	1.00	32.84
2541	CB	TYR	_ A	352	25.012	11.723	16.779	1.00	28.66
2542	CG	TYR	A	352	25.850	12.864	16.269	1.00	26.47
2543	CDI	TYR	A	352	25.545	14.168	16.639	1.00	
2544	CD2	TYR	Α	352	26.948	12.650	15.451		26.55
2545	CEI	TYR	ľΆ	352	26.313	15.236	16.196	1.00	25.98
2546	CE2	TYR	A	352	27.708	13.705		1.00	26.27
2547	CZ	TYR	A	352	27.385	14.991	14.984	1.00	26.13
2548	ОН	TYR	A	352	28.157		15.359	1.00	25.70
2549	N	SER	A	353	22.744	16.019	14.896	1.00	25.41
2550	CA	SER	A	353		9.528	16.167	1.00	31.38
2551	C	SER	A	353	21.742	8.592	16.666	1.00	32.24
2552	ŏ	SER			21.926	7.201	16.064	1.00	32.63
2553	СВ	SER	I A	353	21.565	6.189	16.681	1.00	32.93
2554	og		A	353	20.337	9.125	16.385	1.00	32.06
2555	N	SER	A	353	20.266	10.510	16.706	1.00	32.40
2556		ILE	A	354	22.497	7.136	14.866	1.00	31.79
2557	CA	ILE	A	354	22.761	5.860	14.218	1.00	31.51
	C	ILE	A	354	23.987	5.200	14.844	1.00	32.97
2558	0	ILE	A	354	23.951	4.012	15.168	1.00	33.27
2559	СВ	ILE	A	354	22.935	6.018	12.703	1.00	29.87
2560	CGI	ILE	I A	354	21.576	6.159	12.009	1.00	29.52
2561	CG2	ILE	A	354	23.698	4.848	12.116	1.00	30.35
2562	CDI	ILE	Α	354	21.606	6.908	10.688	1.00	27.41
2563	N	LEU	Α	355	25.055	5.970	15.066	1.00	33.53
2564	CA	LEU	A	355	26.290	5.432	15.639	1.00	33.26
2565	С	LEU	Α	355	26.082	4.959	17.072	1.00	
2566	0	LEU	A	355	26.622	3.935	17.510	1.00	33.69
2567	CB	LEU	A	355	27.439	6.436	15.553		32.84
2568	CG	LEU	A	355	27.931	6.753	14.130	1.00	32.20
2569	CD1	LEU	A	355	28.833	7.978		1.00	31.40
2570	CD2	LEU	A	355	28.643		14.145	1.00	31.15
2571	N	ALA				5.566	13.506	1.00	29.67
2572	CA	ALA	A	356	25.232	5.673	17.809	1.00	33.95
2573	c		A	356	24.883	5.298	19.175	1.00	34.20
2574 2574	0	ALA	A	356	24.327	3.879	19.202	1.00	35.31
		ALA	Α	356	24.632	3.095	20.103	1.00	35.75
2575	CB	ALA	A	356	23.883	6.300	19.720	1.00	33.94
2576	N	LEU	Α	357	23.556	3.497	18.178	1.00	36.14
2577	CA	LEU	A	357	23.049	2.136	18.063	1.00	36.56
2578	С	LEU	Α	357	24.201	1.160	17.855	1.00	37.61
2579	0	LEU	A	357	24.258	0.103	18.490	1.00	
2580	CB	LEU	A	357	22.020	2.012	16.933	1.00	39.13
2581	CG	LEU	A	357	20.692	2.753			35.23
2582	CDI	LEU	A	357	19.880	2.899	17.197	1.00	34.83
	CD2	LEU	A	357	19.880		15.923	1.00	33.45
	N	ARG	A	358		2.060	18.281	1.00	33.22
	··	,4,0	^	٥٥٦	25.135	1.515	16.982	1.00	37.51

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2585	CA	ARG	A	358	26.271	0.683	16.685	1.00	37 58
2586	С	ARG	A	358	27.129	0.376	17.910	1.00	38.26
2587	0	ARG	A	358	27.577	-0.751	18.097		
2588	СВ	ARG	Ā	358	27.197	1.380		1.00	39.24
2589	CG	ARG	_+	358			15.656	1.00	37.33
2590			A		28.337	0.451	15.242	1.00	37.76
	CD	ARG	A	358	29.272	1.085	14.228	1.00	37.44
2591	NE	ARG	Α	358	30.034	2.160	14.848	1.00	38.18
2592	CZ	ARG	A	358	30.884	2.965	14.221	1.00	38.70
2593	NHI	ARG	A	358	31.108	2.831	12.917	1.00	38.32
2594	NH2	ARG	A	358	31.479	3.932	14.919	1.00	38.15
2595	N	ASP	A	359	27.448	1.410	18.670		
2596	CA	ASP	A	359				1.00	37.94
2597	C		o		28.406	1.368	19.746	1.00	37.27
	$\overline{}$	ASP	A	359	27.808	1.313	21.132	1.00	38.02
2598	0	ASP	A	359	28.521	1.217	22.136	1.00	37.65
2599	CB	ASP	A	359	29.231	2.675	19.670	1.00	36.75
2600	CC	ASP	A	359	30.238	2.668	18.549	1.00	36.38
2601	ODI	ASP	A	359	30.280	1.693	17.771	1.00	
2602	OD2	ASP	A	359	30.991	3.661			36.72
2603	N	GLN	A	360			18.460	1.00	36.33
2604	CA				26.491	1.483	21.216	1.00	38.96
		GLN	<u> </u>	360	25.810	1.516	22.509	1.00	39.05
2605	С	GLN	A	360	26.538	2.465	23,461	00.1	39.38
2606	0	GLN	A	360	26.698	2.168	24.643	1.00	39.53
2607	CB	GLN	Α	360	25.660	0.130	23.099	1.00	39.41
2608	CG	GLN	A	360	24.973	-0.898	22.217	1.00	39.76
2609	CD	GLN	A	360	23.466	-0.769	22.178	1.00	
2610	OEI	GLN	Ā	360	22.782				40.29
2611	NE2	GLN				-0.477	23.159	1.00	39.32
2612			A	360	22.893	-0.991	20.988	1.00	40.99
	N	ALA	Α	361	26.886	3.644	22.959	1.00	39.00
2613	CA	ALA	A	361	27.461	4.728	23.751	1.00	38.72
2614	С	ALA	A	361	26.683	6.012	23.442	1.00	38.04
2615	0	ALA	Α	361	26.357	6.270	22.275	1.00	38.26
2616	CB	ALA	A	361	28.937	4.883	23.455	1.00	38.95
2617	N	VAL	A	362	26.325	6.779	24.460		$\overline{}$
2618	CA	VAL	Ā	362				1.00	35.95
2619	C				25.509	7.982	24.250	1.00	33.68
	+	VAL	A	362	26.293	9.242	24.568	1.00	32.65
2620	0 -	VAL	A	362	26.684	9.490	25.703	1.00	31.11
2621	CB	VAL	Α	362	24.215	7.874	25.077	1.00	33.18
2622	CGI	VAL	Α	362	23.575	9.209	25.387	1.00	32.96
2623	CG2	VAL	A	362	23.209	6.988	24.346	1.00	32.67
2624	N	PRO	A	363	26.535	10.050	23.534	1.00	32.66
2625	CA	PRO	A	363	27.283	11.285	23.645	1.00	31.67
2626	C	PRO	A	363	26.671				
2627	0					12.173	24.705	1.00	31.09
		PRO	A	363	25.449	12.194	24.869	1.00	32.64
2628	СВ	PRO	A	363	27.199	11.941	22.285	1.00	32.07
2629	CG	PRO	A	363	26.641	10.940	21.360	1.00	32.96
2630	CD	PRO	I.A	363	26.096	9.789	22.139	1.00	32.89
2631	N	PRO	A	364	27.495	12.901	25.434	1.00	30.09
2632	CA	PRO	A	364	27.032	13.733	26.516	1.00	29.72
2633	С	PRO	Α	364	26.553	15.120			
2634	ō	PRO	A	364			26.123	1.00	29.59
2626		7	 		26.782	15.591	25.016	1.00	28.83
2033	CB	PRO	1 <u>A</u>	364	28.284	13.863	27.386	1.00	29.18
2636	CG	PRO	Α	364	29.418	13.799	26.423	1.00	29.36
2637	CD	PRO	Α	364	28.974	12.883	25.323	1.00	29.95
2638	N	THR	Α	365	25.950	15.787	27.100	00.1	28.90
2639	CA	THR	A	365	25.536	17.166	27.039	1.00	29.34
2640	С	THR	A	365	26.515	17.969	27.909	1.00	29.33
2641	ō	THR	A	365					-
2642					26.271	18.122	29.106	1.00	28.44
	CB	THR	A	365	24.119	17.418	27.589	1.00	30.33
2643	OG1	THR	Α	365	23.174	16.540	26.967	1.00	31.73
2644	CG2	THR	Α	365	23.680	18.864	27.360	1.00	29.24
2645	N	ILE	Α	366	27.654	18.366	27.362	1.00	29.73
2646	CA	ILE	A	366	28.650	19.040	28.203	1.00	30.00
2647	C	ILE	A	366	28.162	20.419	28.621		
2648	ō	ILE	A					1.00	31.27
2649				366	27.219	20.981	28.067	1.00	30.39
	CB	ILE	A	366	30.025	19.120	27.528	1.00	29.07
2650	CG1	ILE	Α	366	30.052	20.205	26.451	1.00	29.20
2651	CG2	ILE	Α	366	30.405	17.769	26.927	1.00	27.75
2652	CDI	ILE	A	366	31.415	20.552	25.913	1.00	28.17

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2653	N	ASN	A	367	28.785	20.975	29.652	1.00 .	32.72
2654	CA	ASN	Α	367	28.511	22.285	30.190	1.00	34.91
2655	C	ASN	Α	367	27.251	22.403	31.019	1.00	36.61
2656	0	ASN	A	367	26.871	23.504	31.450	1.00	
2657	CB	ASN	A	367	28.483	23.311			36.20
2658	CG	ASN	A	367	29.871		29.038	1.00	35.89
2659	ODI	ASN	A	367		23.565	28.480	1.00	36.26
2660	· ND2		\rightarrow		30.866	23.259	29.146	1.00	37.27
2661	$\overline{}$	ASN	A	367	29.952	24.113	27.279	1.00	35.83
	N	LEU	A	368	26.596	21.297	31.326	1.00	39.08
2662	CA	LEU	A	368	25.351	21.292	32.094	1.00	41.70
2663	С	LEU	A	368	25.647	21.267	33.592	1.00	44.25
2664	[0	LEU	Α	368	25.388	20.294	34.299	1.00	44.89
2665	CB	LEU	A	368	24.506	20.106	31.655	1.00	40.63
2666	CG	LEU	A	368	23.160	19.841	32.309	1.00	
2667	CDI	LEU	A	368	22.287	21.085			40.11
2668	CD2	LEU	A	368			32.347	1.00	40.15
2669	N				22.447	18.702	31.590	1.00	38.98
		ASP	<u> </u>	369	26.196	22.375	34.085	1.00	46.52
2670	CA	ASP	A	369	26.643	22.493	35.460	1.00	48.49
2671	<u> </u>	ASP	A	369	25.472	22.540	36.426	1.00	49.89
2672	0	ASP	Α	369	25.518	21.893	37.476	1.00	50.35
2673	CB	ASP	Α	369	27.544	23.715	35.641	1.00	48.44
2674	CG	ASP	Ą	369	28.783	23.682	34.769	1.00	48.89
2675	ODI	ASP	A	369	29.283	24.771	34.401		
2676	OD2	ASP	A	369				1.00	49.53
2677	N	-			29.284	22.587	34.435	1.00	48.33
2678	CA	ASN	I A	370	24.430	23.299	36.104	1.00	51.52
		ASN	A	370	23.261	23.423	36.964	1.00	52.70
2679	C	ASN	Α	370	21.951	23.438	36.185	1.00	53.77
2680	0	ASN	I A	370	21.512	24.515	35.756	1.00	53.47
2681	CB	ASN	A	370	23.326	24.734	37.759	1.00	52.88
2682	CG	ASN	Α	370	24.420	24.856	38.775	1.00	53.02
2683	ODI	ASN	Α	370	25.288	25.726	38.676	1.00	52.97
2684	ND2	ASN	A	370	24.419	23.967	39.766	1.00	
2685	N	PRO	A	371	21.289	22.302			53.88
2686	CA	PRO					36.046	1.00	55.26
2687	C		A	371	20.009	22.231	35.356	1.00	57.50
		PRO	<u>A</u>	371	19.056	23.295	35.870	1.00	60.20
2688	0	PRO	A	371	19.124	23.621	37.064	1.00	61.29
2689	CB	PRO	A	371	19.481	20.849	35.667	1.00	56.46
2690	CG	PRO	Α	371	20.611	20.064	36.190	1.00	56.02
2691	CD	PRO	A	371	21.728	20.992	36.542	1.00	55.51
2692	N	ASP	Α	372	18.181	23.849	35.029	1.00	63.07
2693	CA	ASP	A	372	17.273	24.869	35.590	1.00	66.12
2694	С	ASP	A	372	16.119	24.159	36.301		
2695	0	ASP	A	372	15.977			1.00	67.48
2696	CB	ASP	Â	372		22.938	36.253	1.00	67.01
2697		,			16.848	25.919	34.606	1.00	66.67
	CG	ASP	A	372	16.102	25.455	33.384	1.00	67.57
2698	ODI	ASP	A	372	16.051	24.235	33.120	1.00	67.94
2699	OD2	ASP	A	372	15.548	26.313	32.657	1.00	67.93
2700	N	GLU	Α	373	15.370	24.916	37.074	1.00	69.63
2701	CA	GLU	A	373	14.336	24.473	37.968	1.00	71.38
2702	С	GLU	Α	373	13.674	23.139	37.710	1.00	71.44
2703	0	GLU	Α	373	13.781	22.240	38.570	1.00	71.34
2704	СВ	GLU	A	373	13.255	25.573	38.067	1.00	72.68
2705	CG	GLU	A	373					
2706	CD	GLU	-		13.293	26.290	39.420	1.00	74.09
2707			A	373	11.900	26.805	39.766	1.00	75.02
	OEI	GLU	A	373	11.719	28.038	39.754	1.00	75.05
2708	OE2	· GLU	A	373	11.025	25.946	40.020	1.00	75.57
2709	N	GLY	Α	374	12.842	23.002	36.683	1.00	71.36
2710	CA	GLY	Α	374	12.019	21.821	36.531	1.00	71.79
2711	С	GLY	Α	374	12.488	20.762	35.569	1.00	72.06
2712	0	GLY	Α	374	11.663	19.944	35.116	1.00	72.74
2713	N	CYS	A	375	13.776	20.705	35.244		
2714	CA	CYS	Ā	375	14.273			1.00	71.14
2715	C					19.700	34.302	1.00	70.11
		CYS	A	375	14.845	18.495	35.029	1.00	69.27
2716	0	CYS	Α	375	16.026	18.445	35.367	1.00	69.95
2717	CB	CYS	A	375	15.295	20.356	33.373	1.00	70.22
2718	SG	CYS	A	375	14.615	21.786	32.484	1.00	70.33
2719	N	ASP	Ą	376	14.003	17.492	35.257	1.00	67.38
2720	CA	ASP	A	376	14.353	16.293	35.989	1.00	65.40
			·			- 4	25.707	1.00	33.70

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2721	C	ASP	A	376	14.761	15.117	35.118	1.00	63.43
2722	0	ASP	A	376	14.848	13.977	35.602	1.00	63.21
2723	CB	ASP	A	376	13.144	15.872	36.851	1.00	66.52
2724	CG	ASP	A	376	11.940	15.452	36.031	1.00	67.35
2725	ODI	ASP	A	376	11.974	15.549	34.786		
2726	OD2	ASP	Ā	376	10.925			1.00	67.44
2727	N	LEU				15.017	36.628	1.00	67.75
	$\overline{}$		A	377	14.953	15.337	33.820	1.00	60.30
2728	CA	LEU	A	377	15.263	14.233	32.913	1.00	56.65
2729	C	LEU	A	377	16.745	13.893	32.912	1.00	54.35
2730	0	LEU	_ L A	377	17.586	14.727	33.248	1.00	54.22
2731	СВ	LEU	A	377	14.804	14.587	31.496	1.00	56.05
2732	CG	LEU	Ā	377	13.342	14.988	31.318		
2733	CDI	LEU	A	377	13.151	15.780		1.00	55.48
2734	CD2	LEU	A	377			30.034	1.00	55.31
2735					12.450	13.755	31.324	1.00	55.45
	N	ASP	A	378	17.072	12.669	32.518	1.00	51.50
2736	CA	ASP	A	378	18.466	12.246	32.405	1.00	49.45
2737	C	ASP	A	378	19.063	12.822	31.118	1.00	47.99
2738	_ 0	ASP	A	378	18.941	12.271	30.023	1.00	47.05
2739	CB	ASP	A	378	18.579	10.724	32.418	1.00	49.34
2740	CG	ASP	A	378	19.988	10.196			
2741	ODI	ASP	A	378			32.572	1.00	48.74
2742	OD2				20.188	8.963	32.538	1.00	48.13
		ASP	_ A	378	20.931	11.003	32.733	1.00	49.41
2743	N	PHE	A	379	19.757	13.945	31.255	1.00	46.19
2744	CA	PHE	Α	379	20.293	14.689	30.135	1.00	44.78
2745	C	PHE	Α	379	21.708	14.267	29.762	1.00	44.38
2746	0	PHE	Α	379	22.392	14.967	29.015	1.00	44.31
2747	CB	PHE	A	379	20.289	16.185	30.455	1.00	
2748	CG	PHE	A	379	18.959	16.872			44.27
2749	CDI	PHE	A	379			30.410	1.00	43.99
2750	CD2				18.592	17.747	31.419	1.00	43.84
		PHE	A	379	18.069	16.671	29.370	1.00	44.12
2751	CEI	PHE	_ A	379	17.374	18.397	31.397	1.00	43.77
2752	CE2	PHE	A	379	16.850	17.315	29.337	1.00	44.24
2753	CZ	PHE	A	379	16.497	18.184	30.358	1.00	43.96
2754	N	VAL	A	380	22.144	13.120	30.252	1.00	43.74
2755	CA	VAL	A	380	23.491	12.604	30.043	1.00	
2756	C	VAL	A	380	24.485	13.738			42.47
2757	ō	VAL					30.306	1.00	42.16
			A	380	25.133	14.254	29.412	1.00	41.83
2758	CB	VAL	I A	380	23.717	11.953	28.690	00.1	41.28
2759	CGI	VAL	A	380	25.002	11.135	28.721	1.00	40.26
2760	CG2	VAL	Α	380	22.530	11.071	28.317	1.00	41.05
2761	N	PRO	Α	381	24.545	14.148	31.578	1.00	42.27
2762	CA	PRO	A	381	25.180	15.367	31.990	1.00	42.11
2763	C	PRO	A	381	26.599	15.644	31.608		
2764	0	PRO	A	381	26.806	16.781		1.00	41.67
2765	СВ		+				31.118	1.00	43.27
		PRO	A	381	25.021	15.391	33.511	1.00	42.44
2766	CG	PRO	A	381	23.830	14.555	33.781	1.00	42.72
2767	CD	PRO	A	381	23.743	13.541	32.680	1.00	42.38
2768	N	HIS] A	382	27.641	14.854	31.837	1.00	40.46
2769	CA	HIS	A	382	28.972	15.361	31.463	1.00	40.21
2770	С	HIS	Α .	382	29.808	14.418	30.635	1.00	41.00
2771	O	HIS	A	382	30.612				
2772	CB	HIS	Â	382	29.745	15.751	29.797	1.00	39.92
2773				+		15.751	32.740	1.00	39.82
	CG	HIS	A	382	29.317	17.068	33.305	1.00	39.32
2774	NDI	HIS	Α	382	29.629	18.266	32.705	1.00	39.09
2775	CD2	HIS	Α	382	28.543	17.367	34.375	1.00	39.39
2776	CE1	HIS	Α	382	29.086	19.250	33.393	1.00	39.48
2777	NE2	HIS	Α	382	28.422	18.738	34.413	1.00	39.23
2778	N	GLU	Α	383	29.706	13.118	30.916	1.00	
2779	CA	GLU	A	383					42.14
2780					30.521	12.126	30.227	1.00	43.32
	C	GLU	Α	383	29.638	11.155	29.456	1.00	42.41
2781	0	GLU	Α	383	28.503	10.903	29.847	1.00	41.73
2782	CB	GLU	A	383	31.403	11.362	31.220	1.00	45.87
2783	CG	GLU	A	383	32.071	12.198	32.299	1.00	48.56
2784	CD	GLU	A	383	33.412	12.759	31.859	1.00	50.99
2785	OEI	GLU	A	383	34.217	12.003	31.260		
2786	OE2	GLU	Ā	383				1.00	51.92
2787	N N				33.672	13.962	32.105	1.00	52.07
		ALA	Α	384	30.166	10.620	28.357	1.00	42.07
2788	CA	ALA	A	384	29.437	9.632	27.575	1.00	41.28

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2789	С	ALA	A	384	28.935	8.511	28.488	1.00	41.42
2790	0	ALA	A	384	29.646	8.072	29.392	1.00	40.84
2791	CB	ALA	Α	384	30.318	9.038	26.491	1.00	40.98
2792	N	ARG	Α	385	27.719	8.050	28.221	1.00	41.17
2793	CA	ARG	A	385	27.134	6.969	28.987	1.00	41.16
2794	С	ARG	Α	385	27.155	5.663	28.204	1.00	41.68
2795	0	ARG	A	385	26.740	5.612	27.048	1.00	43.05
2796	СВ	ARG	A	385	25.688	7.287	29.379	1.00	41.25
2797	CG	ARG	A	385	25.008	6.145	-30.128	1.00	41.15
2798	CD	ARG	A	385	24.890	6.475	31.606	1.00	40.96
2799	NE	ARG	A	385	23.866	7.495	31.831	1.00	
2800	CZ								41.21
		ARG	A	385	24.175	8.720	32.233	1.00	41.50
2801	NHI	ARG	A	385	25.455	9.016	32.428	1.00	41.34
2802	NH2	ARG	A	385	23.211	9.609	32.418	1.00	42.12
2803	N	GLN	A	386	27.568	4.596	28.867	1.00	41.57
2804	CA	GLN	Α	386	27.548	3.262	28.264	1.00	40.47
2805	C	GLN	Α	386	26.152	2.680	28.446	1.00	39.88
2806	0	GLN	Α	386	25.497	2.999	29.451	1.00	39.50
2807	CB	GLN	Α	386	28.622	2.417	28.935	1.00	41.01
2808	CG	GLN	Α	386	28.533	0.926	28.674	1.00	40.91
2809	CD	GLN	Α	386	29.158	0.575	27.341	1.00	41.24
2810	OE1	GLN	Α	386	30.355	0.781	27.144	1.00	41.99
2811	NE2	GLN	A	386	28.338	0.075	26.430	1.00	41.97
2812	N	VAL	A	387	25.622	1.979	27.446	1.00	38.93
2813	CA	VAL	Α	387	24.293	1.392	27.543	1.00	38.54
2814	C	VAL.	A	387	24.315	-0.048	27.017	1.00	38.79
2815	ō	VAL	A	387	25.250	-0.473	26.346	1.00	38.11
2816	СВ	VAL	A	387	23.166	2.146	26.817	1.00	37.66
2817	CGI	VAL	A	387	22.938	3.547	27.358	1.00	36.33
2818	CG2	VAL	A	387	23.414	2.193	25.311	1.00	37.03
	N			388	23.234	-0.770	27.273		
2819		SER SER	A					1.00	39.59
2820		I SEK	l A	388	23.106	-2.146	26.786	1.00	40.66
2021	CA			200	31.301	2 200	26.241	1 00	1 40 04
2821	С	SER	A	- 388	21.701	-2.390	26.241	1.00	40.21
2822	C 0	SER SER	Α	388	20.723	-1.842	26.761	1.00	40.50
2822 2823	C O CB	SER SER SER	A	388 388	20.723 23.421	-1.842 -3.127	26.761 27.922	1.00 1.00	40.50 41.01
2822 2823 2824	C O CB OG	SER SER SER SER	A A A	388 388 388	20.723 23.421 23.601	-1.842 -3.127 -4.451	26.761 27.922 27.431	1.00 1.00 1.00	40.50 41.01 41.76
2822 2823 2824 2825	C O CB OG N	SER SER SER SER GLY	A A A	388 388 388 389	20.723 23.421 23.601 21.562	-1.842 -3.127 -4.451 -3.180	26.761 27.922 27.431 25.192	1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76
2822 2823 2824 2825 2826	C O CB OG N	SER SER SER SER GLY	A A A A	388 388 388 389 389	20.723 23.421 23.601 21.562 20.284	-1.842 -3.127 -4.451 -3.180 -3.503	26.761 27.922 27.431 25.192 24.608	1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14
2822 2823 2824 2825 2826 2827	C O CB OG N CA	SER SER SER SER GLY GLY	A A A A	388 388 388 389 389 389	20.723 23.421 23.601 21.562 20.284 19.426	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359	26.761 27.922 27.431 25.192 24.608 24.114	1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70
2822 2823 2824 2825 2826 2827 2828	C O CB OG N CA C	SER SER SER SER GLY	A A A A	388 388 388 389 389 389 389	20.723 23.421 23.601 21.562 20.284 19.426 18.189	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390	26.761 27.922 27.431 25.192 24.608 24.114 24.235	1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14
2822 2823 2824 2825 2826 2827	C O CB OG N CA	SER SER SER SER GLY GLY	A A A A	388 388 388 389 389 389	20.723 23.421 23.601 21.562 20.284 19.426	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359	26.761 27.922 27.431 25.192 24.608 24.114	1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70
2822 2823 2824 2825 2826 2827 2828	C O CB OG N CA C	SER SER SER SER GLY GLY GLY	A A A A A	388 388 388 389 389 389 389	20.723 23.421 23.601 21.562 20.284 19.426 18.189	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390	26.761 27.922 27.431 25.192 24.608 24.114 24.235	1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06
2822 2823 2824 2825 2826 2827 2828 2829	C O CB OG N CA C O N	SER SER SER SER GLY GLY GLY GLY MET	A A A A A A	388 388 388 389 389 389 389 389 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533	1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05
2822 2823 2824 2825 2826 2827 2828 2829 2830	C O CB OG N CA C O N CA C	SER SER SER SER GLY GLY GLY GLY MET MET	A A A A A A	388 388 388 389 389 389 389 390 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831	C O CB OG N CA C O N CA C C O C C	SER SER SER SER GLY GLY GLY GLY MET MET MET	A A A A A A A A A A A A	388 388 388 389 389 389 389 389 390 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832	C O CB OG N CA C O N CA C O O O O O O O O O O O O O O O O O	SER SER SER SER GLY GLY GLY GLY MET MET MET	A A A A A A A	388 388 388 389 389 389 389 390 390 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834	C O CB OG N CA C O N CA C O CB CC C C C C C C C C C C C C C C C	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET	A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835	C O CB OG N CA C O N CA C O CB C O CB	SER SER SER SER SER GLY GLY GLY MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836	C O CB OG N CA C O N CA C O S C C O C C C C C C C C C C C C C C	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837	C O CB OG N CA C O CA C O CS CC O CB CC C O CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CB CC CD CC CB CC CD CC CD CC CD CC CD CC CD CC CD CC CD CC CD CC CC	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838	C O CB OG N CA C O CB CCA C O CB CCA C O CB CCB CCB CCB CCB CCB CCB CCB CCB	SER SER SER SER SER GLY GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.43 39.24 37.25 43.99 46.08
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838	C O CB OG N CA C O CB CG O CB CC O CB CC CC CC CC CC CC CC CC CC CC CC CC	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.359 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.3567 -0.654 -1.001 0.206	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839	C O CB OG N CA C O O CB CG CC O CB CCG SD CCE N CC C O CB CC C C C C C C C C C C C C C	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.359 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2840	C O CB OG N CA C O O CB CG CC CC CC CC CC CC CC CC CC CC CC CC	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841	C O CB OG N CA C O O CB CG CG SD CE N CA C C O CB CG SD CE N CA C C C C C C C C C C C C C C C C C	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841	C O CB OG N CA C O CA C O CB CG SD CE N CA C C C C C C C C C C C C C C C C C	SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.10 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842	C O CB O CA C C O CB CC CC CC CC CC CC CC CC CC CC CC CC	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843	C O CB O CA C O CB CC C C O CB CC C C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY GLY MET MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.802 20.065 17.201 16.864 17.167 16.005 16.255 16.345 15.617	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.27
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844	C O CB OG N CA C O CB CG CC O CB CCB CC O CB CCB CCB CCB CCB CCB	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 -2.345 -3.828 -3.567 -0.654 -1.001 -0.206 -1.963 -3.301 -4.482 -4.540 -5.391 1.215	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845	C O CB O C C O C C C C O C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591 18.871	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844	C O CB OG N CA C O CB CG CC O CB CCB CC O CB CCB CCB CCB CCB CCB	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.991 18.871 19.477	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24 43.65
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845	C O CB O C C O C C C C O C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591 18.871	1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2845	C C C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.991 18.871 19.477	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24 43.65
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2844 2845 2844 2844 2845 2846 2847 2846	C C O C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 390 390 390 390 390 390 390 39	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591 18.871 19.477 20.701	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24 43.65 43.45
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2849	C C O C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.802 20.065 17.620 17.620 17.620 17.65 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787 16.312 16.257	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870 2.501	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.2063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591 19.477 20.701 18.881	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24 43.65 43.45 44.89
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2840 2841 2842 2843 2844 2845 2846 2847 2846 2847 2848 2849 2840 2841 2845 2840 2841 2842 2843 2844 2845 2846 2847 2846 2847 2848 2849 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2840 2841 2845 2846 2847 2846 2847 2848 2849 2849 2840 2841 2845 2846 2847 2848 2849 2840 2841 2845 2846 2847 2848 2849 2849 2840 2841 2845 2846 2847 2848 2849 2849 2840 2841 2845 2846 2847 2848 2849 2849 2849 2849 2849 2840 2841 2845 2846 2847 2848 2849 2850	C C C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 388 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391 391 391	20.723 23.421 23.401 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.802 20.065 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787 16.312 16.257 14.257 13.475 12.942	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870 2.501 1.323 0.403	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.930 19.931 18.871 19.477 20.701 18.881 18.387	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.27 44.78 44.28 44.78 44.28
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853	C C C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 388 389 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391 391 391	20.723 23.421 23.401 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.802 20.065 19.354 20.300 21.765 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787 16.312 16.257 14.257 13.475 12.942 13.246	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870 2.501 1.323 0.403 1.120	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.991 18.871 19.477 20.701 18.881 18.387 19.287 17.032	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 45.60 54.27 44.78 44.24 43.65 43.45 44.89 45.69 46.27
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2849	C C C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER SER SER SER SER	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 389 390 390 390 390 390 391 391 391 391 391 391 391 391 391 391	20.723 23.421 23.601 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.354 20.300 21.765 17.620 17.620 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787 16.312 16.257 14.257 13.446 12.202	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870 2.501 1.323 0.403 1.120 -0.678	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 22.063 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.591 18.871 19.477 20.701 18.881 18.387 19.287 17.032 18.851	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.46 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.36 54.27 44.78 44.24 43.65 43.45 44.89 45.69 46.27 45.96 46.79
2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844 2845 2846 2847 2848 2849 2850 2851 2852 2853	C C C C C C C C C C C C C C C C C C C	SER SER SER SER SER SER SER GLY GLY GLY MET MET MET MET MET MET MET MET MET MET	A A A A A A A A A A A A A A A A A A A	388 388 388 389 389 389 389 389 390 390 390 390 390 390 391 391 391 391 391 391 391 391 391 391	20.723 23.421 23.401 21.562 20.284 19.426 18.189 20.032 19.265 18.906 19.802 20.065 19.802 20.065 19.354 20.300 21.765 17.201 16.864 17.167 16.005 16.255 16.345 15.617 17.166 16.214 15.787 16.312 16.257 14.257 13.475 12.942 13.246	-1.842 -3.127 -4.451 -3.180 -3.503 -2.359 -2.390 -1.330 -0.199 -0.488 -0.610 1.080 2.345 3.828 3.567 -0.654 -1.001 0.206 0.247 -1.963 -3.301 -4.482 -4.540 -5.391 1.215 2.388 3.695 3.870 2.501 1.323 0.403 1.120	26.761 27.922 27.431 25.192 24.608 24.114 24.235 23.533 23.001 21.545 20.705 23.159 22.696 23.053 21.248 19.892 19.024 17.826 19.929 20.576 19.632 18.607 19.930 19.991 18.871 19.477 20.701 18.881 18.387 19.287 17.032	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	40.50 41.01 41.76 39.76 41.14 41.70 41.06 42.05 42.20 42.88 42.82 41.43 40.33 39.24 37.25 43.99 46.08 45.41 44.59 48.01 51.25 53.60 54.27 44.78 44.24 43.65 43.45 44.89 45.69 46.27 45.96

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2857	ОН	TYR	A	392	11.240	-1.930	17.071	1.00	47.01
2858	N	THR	A	393	16.527	4.677	18.599		47 84
2859	CA	THR	A	393	16.763	6.049		1.00	41.43
2860	C	THR	A	393	15.896		18.998	1.00	40.27
2861	0	THR	A	393		7.031	18.195	1.00	39.59
2862	CB		-		15.601	6.863	17.017	1.00	39.19
2863		THR	_ <u> A</u>	393	18.227	6.496	18.876	1.00	40.35
	OGI	THR	A	393	18.792	6.069	17.624	1.00	40.81
2864	CG2	THR	<u> </u>	393	19.062	5.964	20.019	1.00	39.93
2865	N	LEU	A	394	15.488	8.104	18.846	1.00	39.00
2866	CA	LEU	A	394	14.695	9.169	18.264		
2867	Tc	LEU	A	394	15.567	10.401		1.00	38.29
2868	0	LEU	A	394			18.030	1.00	37.46
2869	СВ	LEU			16.480	10.682	18.814	1.00	36.71
2870			A	394	13.533	9.523	19.189	1.00	39.52
	CG	LEU	A	394	12.508	10.542	18.696	1.00	40.53
2871	CDI	LEU	A	394	11.158	9.876	18.456	1.00	40.54
2872	CD2	LEU	Α	394	12.360	11.689	19.690	1.00	40.98
2873	N	CYS	Ā	395	15.300	11.120	16.940	1.00	
2874	CA	CYS	A	395	16.095	12.310			36.66
2875	С	CYS	A	395	15.238		16.628	1.00	35.56
2876	10	CYS	A	395		13.530	16.318	1.00	34.76
2877					14.505	13.532	15.328	1.00	34.93
	CB	CYS	A	395	17.014	12.019	15.441	1.00	34.91
2878	SG	CYS	A	395	17.954	13.469	14.915	1.00	35.28
2879	N	ASN	A	396	15.362	14.594	17.099	1.00	33.67
2880	CA	ASN	Ā	396	14.583	15.799	16.915	1.00	33.78
2881	С	ASN	A	396	15.283	16.976	16.256	1.00	
2882	0	ASN	A	396	16.488	17.152			32.51
2883	СВ	ASN	A	396	14.115		16.339	1.00	33.78
2884	CG	ASN	A	396		16.318	18.292	1.00	35.61
2885					12.854	15.629	18.754	1.00	37.03
	ODI	ASN	A	396	12.208	14.917	17.979	1.00	36.89
2886	ND2	ASN	Α	396	12.542	15.844	20.031	1.00	37.90
2887	N	SER	I A	397	14.501	17.847	15.645	1.00	31.24
2888	CA	SER	Α	397	14.937	19.065	14.990	1.00	30.08
2889	C	SER	A	397	13.728	19.999	14.871		
2890	0	SER	A	397	12.686	19.517		1.00	29.36
2891	СВ	SER	A	397	15.460		14.403	1.00	28.86
2892	ŌĞ	SER				18.847	13.579	1.00	29.66
2893	N		<u> </u>	397	16.795	18.440	13.514	1.00	30.44
		PHE	A	398	13.798	21.220	15.377	1.00	28.10
2894	CA	PHE	A	398	12.630	22.116	15.262	1.00	28.51
2895	С	PHE	Α	398	13.071	23.370	14.525	1.00	28.82
2896	0	PHE	Α	398	14.295	23.555	14.417	1.00	30.86
2897	CB	PHE	A	398	12.006	22.417	16.613	_	
2898	CG	PHE	A	398	11.817	21.230		1.00	28.54
2899	CDI	PHE	A	398	12.295		17.522	1.00	28.25
2900	CD2	PHE				21.264	18.818	1.00	28.38
2901			A	398	11.174	20.084	17.096	1.00	27.71
	CEI	PHE	A	398	12.163	20.173	19.651	1.00	29.51
2902	CE2	PHE	Α	398	11.073	18.976	17.897	1.00	28.62
2903	CZ	PHE	Α	398	11.556	19,013	19.188	1.00	29.57
2904	N	GLY	Α	399	12.192	24.182	13.950	1.00	27.59
2905	CA	GLY	A	399	12.635	25.341	13.198	1.00	
2906	С	GLY	A	399	11.652	26.491	13.079		26.19
2907	0	GLY						1.00	26.07
2908	N		A	399	10.445	26.378	13.285	1.00	25.91
		PHE	A	400	12.188	27.658	12.745	1.00	25.06
2909	CA	PHE	Α	400	11.482	28.899	12.529	1.00	24.03
2910	С	PHE	A	400	10.259	28.629	11.651	1.00	24.31
2911	0	PHE	Α	400	10.354	27.971	10.616	1.00	23.63
2912	СВ	PHE	A	400	12.387	29.922	11.850	1.00	24.14
2913	CG	PHE	A	400	13.306	30.718			
2914	CDI	PHE	A	400	13.533		12.718	1.00	25.15
2915	CD2					30.424	14.055	1.00	24.96
		PHE	A	400	13.974	31.813	12.170	1.00	25.57
2916	CEI	PHE	Α	400	14.385	31.188	14.826	1.00	24.16
2917	CE2	PHE	Α	400	14.806	32.600	12.940	1.00	25.43
2918	cz	PHE	Α	400	15.018	32.276	14.270	1.00	25.18
919	N	GLY	A	401	9.099	29.086	12.115	1.00	
920	CA	GLY	A .	401	7.842	28.848			24.50
921	C	GLY	A	401			11.405	1.00	23.46
922	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 				7.129	27.661	12.040	1.00	23.34
		GLY	A	401	6.228	27.052	11.467	1.00	22.92
923	N .	GLY	<u> </u>	402	7.634	27.221	13.198	1.00	23.63
924	CA	GLY	A	402	7.103	26.072	13.900	1.00	23.42

					12/	110			
2925	<u> </u>	GLY	A	402	7.077	1 24.803	13.068	1.00	24.44
2926	0	GLY	A	402	6.208	23.954	13.285		
2927	N	THR	A	403	8.060	24.585		1.00	24.84
2928	CA	THR	A	403	8.122		12.203	1.00	24.96
2929	С	THR		403		23.374	11.385	1.00	25.60
2930	10		A		8.923	22.313	12.123	1.00	25.97
		THR	_ A	403	10.091	22.525	12.445	1.00	26.03
2931	CB	THR	A	403	8.711	23.664	10.000	1.00	26.33
2932	OGI	THR	A	403	8.834	22.465	9.225	1.00	26.55
2933	CG2	THR	I A	403	10.078	24.329	10.102	1.00	
2934	N	ASN	A	404	8.267	21.206	12.481		26.08
2935	CA	ASN	À	404	8.883			1.00	26.32
2936	С	ASN	A	404		20.161	13.278	1.00	25.93
2937	ō				9.004	18.827	12.553	1.00	26.08
		ASN	A	404	8.216	18.461	11.678	1.00	25.83
2938	CB	ASN	Α	404	8.105	19.908	14.575	1.00	26.10
2939	CG	ASN	A	404	7.872	21.156	15.387	1.00	27.31
2940	ODI	ASN	A	404	8.801	21.721	15.968	1.00	
2941	ND2	ASN	A	404	6.620	21.607	15.422		27.66
2942	N	GLY	A	405	10.005			1.00	28.28
2943	CA	GLY	A	405		18.064	12.990	1.00	25.82
2944	c				10.265	16.759	12.411	1.00	27.49
\vdash		GLY	_ A	405	11.035	15.853	13.369	1.00	27.89
2945	0	GLY	A	405	11.823	16.310	14.199	1.00	28.48
2946	N	SER	Α	406	10.834	14.555	13.213	1.00	26.92
2947	CA	SER	Α	406	11.477	13.559	14.029	1.00	27.03
2948	С	SER	A	406	11.774	12.300	13.211		
2949	10	SER	A	406	10.962	11.914		1.00	28.11
2950	CB	SER	A	406			12.365	1.00	28.49
2951	ŌĞ	SER			10.563	13.146	15.182	1.00	27.63
2952			A	406	10.349	14.156	16.132	1.00	28.47
	N	LEU	A	407	12.897	11.661	13.493	1.00	28.14
2953	CA	LEU	<u> </u>	407	13.261	10.416	12.830	1.00	29.52
2954	C	LEU	L A	407	13.559	9.328	13.861	1.00	30.74
2955	0	LEU	A	407	14.165	9.583	14.910	1.00	
2956	CB	LEU	Α	407	14.464	10.657	11.925		31.02
2957	CG	LEU	A	407	14.168	11.373		1.00	29.92
2958	CDI	LEU	A	407			10.595	1.00	30.15
2959	CD2				15.461	11.704	9.874	1.00	28.71
		LEU	Α	407	13.247	10.526	9.725	1.00	29.57
2960	N	ILE	A	408	13.073	8.116	13.633	00.1	31.35
2961	CA	ILE	I A	408	13.309	7.003	14.552	1.00	31.21
2962	C	ILE	A	408	14.199	5.975	13.852	1.00	32.25
2963	0	ILE	A	408	13.896	5.536	12.746	1.00	
2964	СВ	ILE	A	408	12.025	6.322			31.08
2965	CGI	ILE	A	408			15.033	1.00	30.12
2966	CG2	ILE			11.353	7.157	16.132	1.00	29.79
2967			A	408	12.305	4.920	15.557	1.00	29.58
	CD1	ILE	A	408	9.895	6.798	16.326	1.00	29.42
2968	N	PHE	A	409	15.284	5.614	14.523	1.00	34.35
2969	CA	PHE	Α	409	16.214	4.642	13.950	1.00	36.66
2970	C	PHE	Α	409	16.134	3.342	14.724	1.00	
2971	0	PHE	A	409	15.690	3.343	15.874		38.51
2972	CB	PHE	A	409	17.635			1.00	38.95
2973	CG	PHE	A	409		5.215	13.925	1.00	36.47
2974	CDI	PHE			17.789	6.215	12.808	1.00	36.23
2975			A	409	17.643	7.567	13.065	1.00	36.49
	CD2	PHE	Α	409	17.991	5.788	11.505	1.00	35.84
2976	CEI	PHE	Α	409	17.755	8.487	12.036	1.00	36.42
2977	CE2	PHE	Α	409	18.093	6.696	10.475	1.00	36.01
2978	CZ	PHE	A	409	17.977	8.051	10.745	1.00	36.45
2979	N	LYS	Α	410	16.465	2.241			
2980	CA	LYS	A				14.066	1.00	40.81
2981	C	LYS		410	16.395	0.937	14.720	1.00	42.76
			A	410 .	17.648	0.123	14.412	1.00	43.74
2982	0	LYS	Α	410	18.141	0.139	13.281	1.00	42.97
2983	CB	LYS	Α	410	15.147	0.184	14.279	1.00	43.67
2984	CG	LYS	Α	410	15.072	-1.261	14.749	1.00	45.15
2985	CD	LYS	A	410	13.842	-1.944	14.178	1.00	
2986	CE	LYS	A	410	13.728				46.70
2987	NZ	LYS		+		-3.393	14.600	1.00	47.69
2988			A	410	13.392	-3.506	16.051	1.00	48.43
	N A	LYS	Α	411	18.133	-0.567	15.439	1.00	45.19
2989	CA	LYS	A	411	19.314	-1.409	15.301	1.00	47.01
2990	C	LYS	Α	411	18.931	-2.679	14.539	1.00	48.00
2991	0	LYS	A	411	17.858	-3.221	14.794	1.00	47.64
2992	CB	LYS	A	411	19.882	-1.782	16.661		
			<u> </u>			1.704	10.001	1.00	47.51

					3 /./	10			
2993	l CG	LYS	A	411	21.236	-2.461	16.610	1.00	48.43
2994	CD	LYS	A	411	21.829	-2.606	18.008	1.00	
2995	CE	LYS	A	411	21.660	-1.036			49.25
2996	NZ	LYS	A	411	22.313	-4.225	18.505	1.00	49.84
2997	N	ILE	I A	412			19.835	1.00	50.37
2998	CA	ILE			19.767	-3.087	13.601	1.00	49.72
2999			A	412	19.469	-4.274	12.799	1.00	51.86
	<u> </u>	ILE	_ A	412	20.459	-5.392	13.085	1.00	52.16
3000	0	ILE	_ A	412	20.167	-6.540	12.754	1.00	52.95
3001	CB	ILE	_ A	412	19.422	-3.917	11.307	1.00	53.06
3002	CGI	ILE	A	412	18.129	-4.459	10.671		
3003	CG2	ILE	T A	412	20.640	-4.413		1.00	53.46
3004	CDI	ILE	A	412			10.543	1.00	53.46
3005	OXT	ILE			17.892	-3.896	9.278	1.00	53.36
3006			A	412	21.521	-5.114	13.639	1.00	52.95
	ILE	A	412						
3007	C1	CER	Α	413	16.270	27.008	14.939	00.1	42.62
3008	NI	CER	A	413	15.405	28.001	15.549	1.00	
3009	01	CER	A	413	16.728	30.271			43.68
3010	C2	CER	A	413	16.925		11.664	1.00	41.32
3011	O2	CER	A			27.331	13.561	1.00	38.73
3012	C3			413	16.493	25.921	15.481	1.00	43.30
	-	CER	_ A	413	15.986	28.354	12.880	1.00	40.31
3013	O3	CER	_ <u> </u>	413	14.813	27.662	12.446	1.00	40.48
3014	C4	CER	_ A	413	16.661	29.036	11.703	1.00	40.39
3015	C5	CER	A	413	17.226	28.267	10.507	1.00	40.11
3016	C6	CER	A	413	17.265	29.232	9.297	1.00	
3017	C7	CER	Α	413	18.711	29.652			39.90
3018	C8	CER	A	413			9.103	1.00	40.02
3019	<u>C9</u>	CER			19.383	29.404	7.982	1.00	39.25
3020			I A	413	20.833	29.912	7.969	1.00	39.77
	C10	CER	A	413	20.766	31.443	7.867	1.00	39.44
3021	CH	CER	A	413	21.590	32.160	8.641	1.00	39.99
3022	C12	CER	_ A	413	21.550	33.685	8.529	1.00	40.81
3023	0	нон	501	21.907	17.399	19.574	1.00	18.60	0
3024	0	НОН	502	21.318	20.702	-2.438	1.00		
3025	0	нон	503	26.523	32.326			24.78	10
3026	0	нон	504			19.940	1.00	34.45	10
3027	ő			28.449	30.874	3.017	1.00	33.79	0
	-	нон	505	24.668	28.038	4.445	1.00	18.32	0
3028	0	нон	507	15.042	27.512	5.199	1.00	17.31	0
3029	0	нон	508	29.925	26.579	22.947	1.00	40.78	0
3030	0	НОН	511	23.439	42.041	15.173	1.00	71.80	Ö
3031	0	нон	512	22.342	38.099	20.418	1.00	32.70	
3032	0	нон	516	10.030	4.324				0
3033	0	НОН	520	13.286		6.316	1.00	46.02	10
3034	ŏ	нон			7.231	-11.806	1.00	52.47	0
			600	4.344	28.171	14.312	1.00	34.33	0
3035	0	HOH	601	8.984	29.158	15.330	1.00	19.89	0
3036	0	нон	602	23.826	20.969	14.788	1.00	27.55	0
3037	0	НОН	604	35.933	26.827	5.038	1.00	38.80	Ō
3038	0	НОН	605	32.286	37.853	-6.692	1.00	46.37	0
3039	0	нон	606	3.089	3.720	8.561		 -	+
3040	0	нон	607	16.239			1.00	61.24	10
3041	ō	нон			-0.824	25.960	1.00	37.31	0
3042	0		608	6.142	22.763	19.648	1.00	44.37	0
	~	НОН	609	6.225	28.059	17.075	1.00	32.61	0
3043	<u> </u>	нон	611	32.315	7.695	30.119	1.00	51.98	0
3044	0	нон	612	32.210	7.634	6.284	1.00	35.28	0
3045	0	нон	613	17.070	38.017	12.044	1.00	22.73	0
3046	0	НОН	614	31.176	19.825	30.843	1.00	37.36	
3047	0	нон	615	27.957	31.368	17.445			<u> 0</u>
3048	ō	нон	616				1.00	32.76	0
3049	。			32.966	30.345	-2.158	1.00	56.05	0
		НОН	618	11.323	-4.259	1.793	1.00	38.53	0
3050	0	нон	620	26.925	5.604	-18.307	1.00	53.90	0
3051	0	нон	621	16.279	30.145	2.670	1.00	31.13	0
3052	0	нон	622	38.595	8.716	10.273	1.00	46.13	Ö
3053	0	нон	623	33.582	26.804	8.900	1.00		
3054	0	нон	624	21.151	45.870	-3.906		21.60	0
3055	ŏ	нон				_	1.00	28.41	0
			625	23.504	29.447	25.903	1.00	17.43	0
3056	0	нон	626	26.368	1.855	-19.938	1.00	44.00	0
3057	0	нон	627	2.152	6.256	9.459	1.00	47.04	0
3058	0	нон	628	6.809	19.529	9.383	1.00	29.11	ō
3059	0	НОН	629	15.379	11.563	30.794	1.00	48.45	Ö
060	0	нон	630	27.712	4.338				
			_ 050	41.184	+.330	-20.522	1.00	45.95	0 1

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3061	0_	НОН	631	18.721	20.451	10.277	1.00	22.11	I o
3062	0	НОН	632	31.228	24.084	23.545	1.00	32.43	10
3063	0	нон	634	39.583	12,746	19.869	1.00.	49.30	_
3064	0	нон	635	25.064	38.355	18.750	1.00		0
3065	0	нон	636	28,974	33.743	10.730	1.00	31.27	10
3066	0	нон	637	26.250	41.318	16.894		25.15	-0
3067	0	нон	638	11.568	27.419	17.240	1.00	47.65	0
3068	0	нон	639	18.706	-6.969		1.00	50.15	0
3069	0	нон	640			8.775	1.00	47.69	_ 0
3070	ŏ			19.374	-8.885	10.540	1.00	90.15	0
3071	10	HOH	641	22.107	-2.476	12.466	1.00	58.99	0
		НОН	642	31.157	0.866	24.564	1.00	73.54	0
3072	10	нон	643	11.493	22.417	31.837	1.00	62.07	0
3073	0	нон	644	20.933	16.056	-12.243	1.00	35.36	0
3074	0	нон	645	15.004	40.860	22.656	1.00	47.29	
3075	0	нон	646	16.452	-8.745	9.506	1.00	93.19	0
					1	7.500	+ 1.00	93.19	10

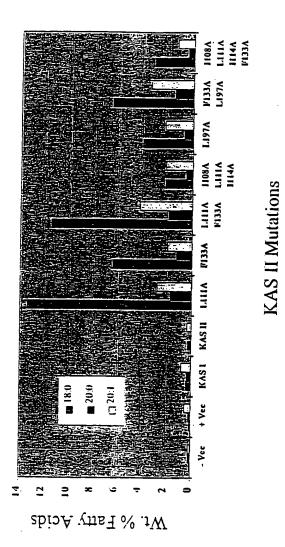
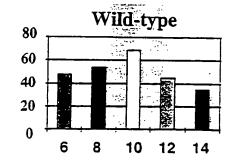
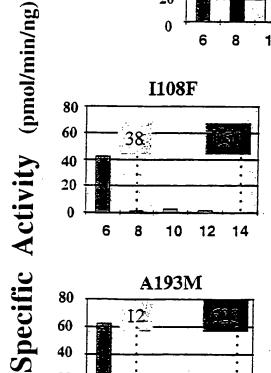
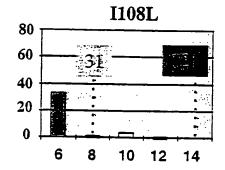


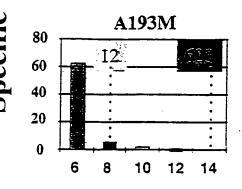
FIGURE 3

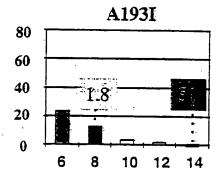












Acyl-ACP Substrates

FIGURE 4

Enternation of the Degresse in Activity 1811 & Januar Lead Compared to 6805ACCP

Reduction in Activity on 8:0-ACP

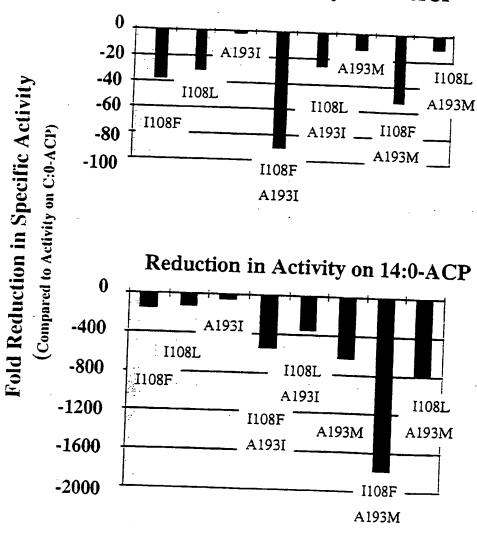


FIGURE 5

Omenfron ordiceCeleactivity ordice - *Single ential ordical further

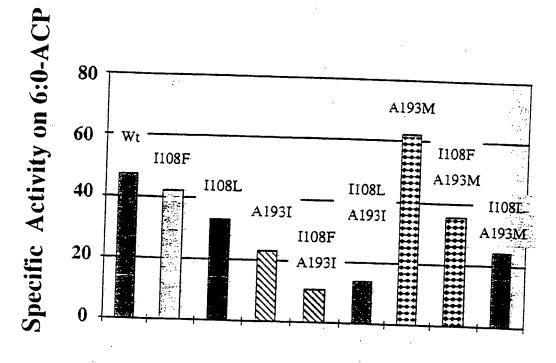
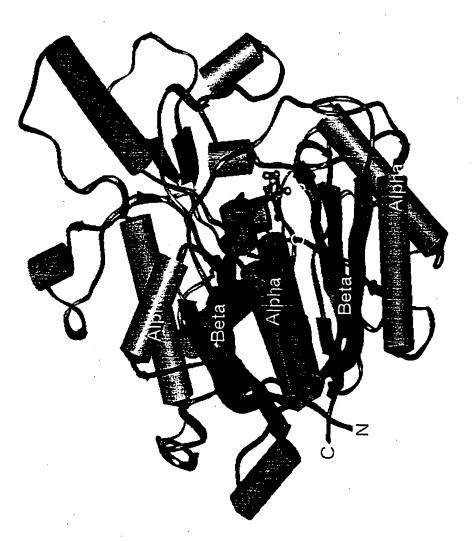


FIGURE 6

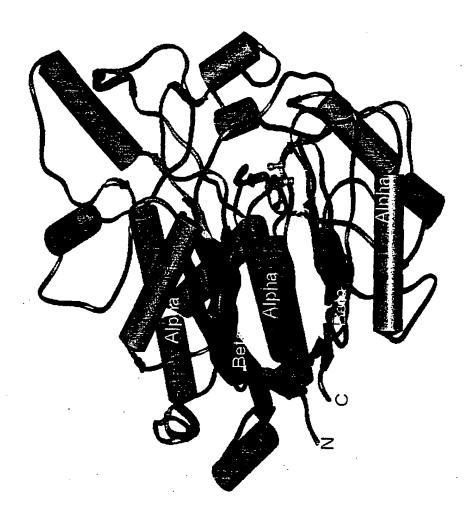
Decreasing the Length	Increasing the Length
I108F I108L A193I A193M I108F, A193I I108F, A193M I108L, A193I I108L, A193M	L111A F133A L111A, F133A I108A, L111A, I114A L197A F133A, L197A I108A, L111A, I114A, F133A, L197A



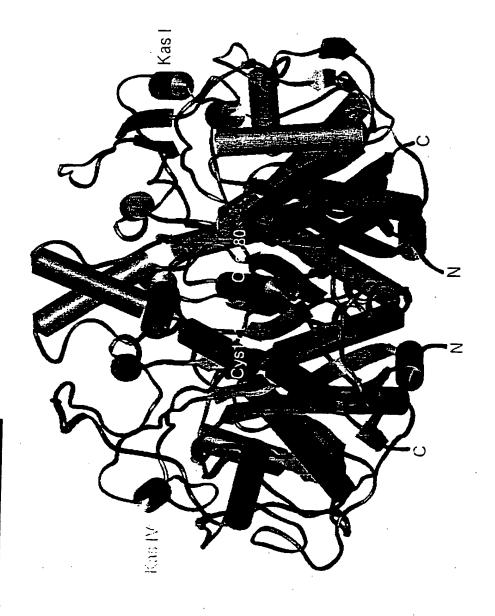
FIGURE 7



IGURE 8



Cpu Kas IV



KASI/KASIV

E.coli	C.pu
Kas II	KAS IV
I108	M110
L111	M113
L113	V115
I114	F116
F133	C134
I138	T139
L197	I198
G203	V204

Sequence Differences in the Hydrophobic Pockets of *E.coli* KAS II and *C.pu* KAS IV

Figure 11

/	10	14	1	/	//	/	0	•
7	7.1	7.1	7	7.1	7.1	64	82	
XGW-VAPK	XM-VAPK	CW-VAPK	X3W-VVPK	GW-VAPK	GW-VAPK	MFVLAAS	KLLFTSQ	

10 20 30	FDPVAAGI.SAE
At KASI. pro Br Kas 50. pro Ch KASI. 1. pro Ch KASI. 1. pro Ch KASI. 1. pro Cpu KASI. 1. pro HV KABI. 2. pro RCKABSO. pro CC KAS. 1. pro RCKABSO. pro CC KAS. 1. pro CC KAS. 1. pro CC KAS. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro CW KASA. 1. pro HV KASORF25 (KAS. 1. KK	SYN KAS.pro V.pro

PAGE MISSING AT TIME OF PUBLICATION

	CIGNAANII KRGEADVHLAGGSEAA I IPIGLGGFV	WILAGGSEAAI	IPIGLOGEV	AL SQR-ND	ALSQR-NDDPQKASHPWDKDPUGFVMGEGACVLVI.EE	KDRDGFVMGI	EGACVLVI.EE	AKKRGAPIYAEY	YAEYLOGAE	AKKRGAPIYAEVI COAFTY DAVIMENDIA - ATXLICTUS -	- Arxil Cayer	4591.
	250	260	270	280	290	390	310	320	3 30	340	350	5 E
At KASI.pro	CFYAAANINHIGEALMH LAGGIFAA II PIGLOGFYACRALSOR - NDDPOTASIRMIGEYWERTAGAN WARST FILIAKKRGA DI WASYI COMMISSIONAL	IPM I AGGI'EAA I	I P I GLOGE VACI	RALSOR - ND	DPOTASRPWD	KARICEVMC	TIACIVI VIMESI	HAMKRCADI	VAEVICAN		200	
Br Kas 50.pro	CFYAAABIIIRGGALAAH AGGIEAA I I PIGLGGFVACRAL SQR-HDJDFQFAKGINGFVKGGAGGU,MASIS EHARKIGAB I VAFY GGAVAFORINIAMINI DET AGGIAGGAGGU,MASIS EHARKIGAB I VAFY GGAVAFORINIAMINIAMINIAMINIAMINIAMINIAMINIAMINIA	MMI ACCIVEANI	IPIGLOGEVACE	RALSQR-NII	DP(/PASRPMD	KORUGEVING	SCAGVLVMESTE	HAMKEGAPI	VAFYICAN	Commentors	WILLIAM SERVICES	
Ch KAS I .pro	CFHAAABHIRKGEADIMIAGGTEAALIPIGLGGEVACRALSQR-NDDPQTASRWINGCHGFVANEGGACALIMESTEINERGESTEING TACTOR VINNERGESTEING TO THE CONTROL OF THE CONTROL	IMIAGGTEAAI	1PIGLOGEVACE	RALSQR-ND	DPQFASRPWD	KDRUCEVIKCE	XACVI,VMESI.E	HAMRICAPI	TAFVICATI	CDAVIENT DER	MANAGE CHEST	
Ch KASI-1.pro	CFYAAANIHRIGEADI MIAGTEAA I IPIGLOGFVACRAL SQR-NDDPQPASRANDKDHDGFVAGBGACVLVHESI, EHAKKIGAP I 18FYI GTANACHANING MIAMANAN ACCIONACH CONTRACTOR AND ACCIONACH	MIMIACCTEAN	IPIGLOGEVACI	RALSQR-ND	DPQTASREND	KDRDGFVMGI	SCACVLVMES1,E	HAMKRGAPI	IAEVICCAVI	CONTINUE	AFY LYBER	
Cpu KAS 1.PRO	CFILAANHIKRCEAD	RGEADI MI AGCIEMA II PI GLOGFVACRALSQR- NDDPQTASHWDXORDGFVAGEGAGVI,VLESI,EHAKKRGAP I I AFY I JCA BATHAVIMITIDA BATHAVIA GAGA GAGA GAGA BATHAVIMITIDA BATHAVIMITI BATHAVIMITIDA BATHAVIMITI BATHAVIMITIDA BATHAVIMITI	1 P I G L CG F VACI	PALSQR-ND	DPOTASRPWD	KDRDGFVMGE	CAGVLVLESLE	HAMKRGAPI	IAEVICAL	CDAYINGTOR	ALC LOCK	
cpuKASI-1.PRO	CFYAAANHIRGEADLIIIAGGTEAAVIPIGLGGFVACRALSQR-NDDPQTASRPHDKDRTCFVWGEDACVIVWESLEIPREKRGAPTIAFY GCANRCHANIANIAN INCONTRACT	"IMIAGGTEAAV.	1P I GLCCFVACE	PALSQR-ND	DPQT'ASR PWD	KDRDGFVMGE	CACVLVMESLE	HAMKRGAPI	TAEVICCAM	Chavinetide	SCATION A	
Hv Kas12.pro	CFYAAANIIIRGEAD	RGEADTIVACGTEAATIPIGLCGFVACKALSQR-NDDPT7ACRPADKERUXFVAGE3AGVLVHESLEIAMKRDAPTTARTARTARTARTARTARTARTARTARTARTARTARTAR	I P I GLOGEVAC!	VALSQR-ND	DPITACRPMD	KERLIGEVINGE	GAGVI.VIMESI.E	HAMKRDAPI	1 AEYLG :AV	CDAYINGTIDER	ADCI CVCC	
RcKas50.pro	CFYAAANHI HKGEAELMI AGGTEAA I I PIGLOGFVACRAL SQR-NDDPQTASRAMDKDHUSPVMGEGAGULVNESLEIBAKKGAP I JAFYLGAANKTDA VIIITIIIII A TOT GAGGOT GAG	LMI AGGTEANI.	I P I GLOGEVACE	PALSQR-ND	DPQTASRPWD	KURUGEVMGE	CAGVLVMESLE	HAMKRGAP I	IAEYICGAV	CDAYIREDER	APPLICATION A	100 501
Cc Kas.pro	CFYSABHIRRGEADIMVAGCTDAF ISA IGVGGLIACRALSQR- HDEYEKA SRPMDRNRUCFV IGESGGVI, VMFNI, FSIB I KRCAB I 1 EFW I GCS TRECHING THE TRECHING TH	IMVACCTDAF1	SAIGVGGLIACE	WLSQR- ND	EYEKASRPWDI	RNRDGFVIGE	XSGVLVMENLE	HALKACAPI	I A F VI CC A 19	Continue	PECALALAN SS	
Ch KAS IV-1.pro	CILANARHII INGEADVALCOGSDAVI I PICHOGEVACRAL SQR-INDPTKA SRPMDSYNCGEVYKEBOACH LIFE FILAKRECET TOGETYCON MARIEN I DEFT-ALLOWS STATEMENT OF THE	WILCGGSDAVI	IPIGMOGEVACE	PALSQR-NA	OPTKASRPWD	SNRDGFVMG	CAGVILLEELE	HAKKRGATI	VAFFICOCE	COMMITTERS.	ALCINOVSSC PROPERTY OF THE	
Ch KASIV.pro	CILMAANIII IKGEADI	KGBADPELCGSDAAVLPVGLAGFVACRALSOR-INIDETKASHEMIDSIRFERAMSEDAGIT I EST ELLEVERGETTE I ALGER I CONTINTI ETT FLIGHT I ELLE	LPVGLOGEVACE	VALSOR-NNI	DPTKASRPWDA	SHIDGENACE	TOPON I LEEL C	TIPOTO TOTAL	The Formation	CDATIMIECI	PLUCAGO I LC	
Cpu KASIV.pro	CIMMANNII RGEADVALCOGSDAVII PICHOGEVACRALSON-NSDPYKASRPADRARDENASCOCIAL ELEGIAN KANTI TARELOGSFTUDAYIBITERIH -PRIACVII (LIEKA	VMLCGGSDAVI.)	I P I CMCGFVACE	W.SOR-NS	DPTKASRPMD6	SARDOFANCE	CAGVILLEELE	HARRICAN!	YAEF LOGSFT	CDAYIMEPH-	-PEGAGV11A	
Cw KASA-1 pro	CILNAANIIIIRGEADI	GGEADWOLCOSDAVI IPIGLOGEVACRALSOR-NSDPTKASREMINSHITEROMERIAN OF THE SECONDAVIA THE TRAFFICASSFTCDAYINGTERH - PICAGOVILCI EKA	IPICLOCEVACE	WLSOR-NS	PPTKASRPWD	WIRDOFWACE	MAGVILLIEELE	HANNECATI	YAEFLOGSFI	CDAYION FEPH-	- PIXCAGVIIA	
Cw KasA-2.pro	CILNAANIIIRGEAD	RGEACHOLCOSOBALI PICICOFYACRALSOR-INDPTRASRIMENTERMINISTERMINI	I P I GLOGEVACE	VAL SOR-NN	DPTKASRPWD	SMRTCFVACE	ZAGVLI I SELE	THE KIND CARE	THEFT. COOK	CDAYIBITEPII	- PECACVIIA	
HV KASORF22 (KAS	HV KASOHF22 (KAS I) CILAMANIIIRRGEADVALCGGSDAPLIPIGLGGFVACRALSDR-NSDPTKASKPADMINTGFWAGFTACH IN THE FLANGEST FLUAVINFEINF-PEAGOULLERA	WILCOGSDAPL	IPIGLGGFVACE	MLSUR-NSI	DPTKASRPMDE	EDRICEVIACE	CAGVI VI EEL E		VALUE COURS	CDAYIMTEP!	PECAGVILC	
HV KBSORF25 (KAS IN CILSAANHIME	IN CILSAANHIMRGETD!	ROBTDI AL COGSDAPI IP IGLICUSY ACRALSOR - NSDPTKA SHRAMMITISTISM STATEMENT CONTROLLE IN CONTROLLE IN THE CONTROLLE OF THE CON	1 P I GLOGGEVACE	WLSOR-NS	PPTKASHPWD	TORITGENACE	SAGOVILLERIA SAGOVILLERIA	TANCOCALL	TAEFIAGSFT	CDAYHUTEPH	-PECTCITIC	
RcKas46.pro	CILMANH II RGEADINI COGSDANI IP IGLOGEVACRAL SOR - RIDDPIKASIP WITHAUH CISTAMA CONTRACTOR CONTRACTO	IMCCGSDAAI	1P I GLOGEVACE	WLSOR-RD	ACMASH PMID	ONFICENCE	XACVILLEEUS	I PANCHORE I	THEFTAGNET	CDAYIMTEPII	-PEGKGVIIA	
Ce.KAS.PRO	CIGNSFRSIRVGDSRRALAGAVECALMPIALAGEDRHRALAR GDOPH ISRPERKRAGENGSFRICH VARIANCE FRANKONOM I AND TAKE LIGHT MITTER FOOGS I CONSTRUCT TO A CON	RALAGAVECALA	NPIALAGFDRME	WLARGI	SOPNI SHPFD	CKRACEVMSE	TANGI VENERI S	TOPOPECAOL	IAEFIAGUSFI	CDAYIU4FEPR-	PDCVCVILC	
CEM. pro	SICDAFNFIRIGMQD	GRODICVAGASETSLHPLSLAGFIRAKSTTTNGISRPEDTORSGFT/GFTCHAILMANGARANT FOR UNIVERSIAL THISTPD-PSAIGANLANDER	HPLSLAGFIRAK	SITTNK	3ISRPFD	ORSCEVICE	COMINMEST E	HACKBRANT	CIDIDAGUA CI	SOCYHISTPD-	PSAIGAVLS	
Ec KAS II.pro	NIGINARI I AYGDADA	GDADVMVAGGAEKASTPLGVGGFGAARALSTR -NIDNPQAASHPHDKFRUGFGGAALULEFYFIBAKREDAKTVAETUGGATER SPEAKANINGHEN ENA	TPI GVOGFGAAF	WLSTR-NDA	VPQAASH PWDA	REMUCEVICE	CACMUNITEEYE	HAKKRGAKT	VAFI VOEDING	SDAVIDENCED	- ALKUNCAKKA	
Ec Kasl pro	CIGNAVEQIQLGKQD)	GKQDIVFAGGEELCMENA-CEFDANGALSTKYNDTPEKASKTYDAHUGEVIAGGGGNVVVEELEIALARGAIT VAETUVVGARGVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MEMA-CEFDAMO	ALSTKYND	PEKASHTYDA	WHRDCFVIAG	GGG-NWVEEL E	HAL ARGAILT	WAPTVOVOR	- delimination	OUT OUT ON THE	
M.tub.KasA.pro	ATANAMRQTOWSDADVAVCXGVEGPI EAL.PTAAFSMAR-AMSTRUDEPERASHPEDGNINGCHVEGEAGNINT LPH-EDIAKABLACH NOT COLOUR DESCRIPTION OF COLOUR DESCRIP	VAVCCCVECPIE	EAL PI AAF SMMR	1- AMSTRNDE	PERASHPEDA	UNDCFVFCE	AGALMLI PTIFE	IAKABCAKB	E POLICE CALCULATION	Standard	- SUBSTRACK	
M. tub. KasB. PRO	A I ARAWQQ I VLGEADA	GEADAA I COCVETRI EAVPI AGEAQMI I WISTINIDDPAGACHPEDRIRGEVEEPTAIL I I FFFFILM BACKATHE THILLIAN THE THILLIAN THE TAXAFACH THE THILLIAN THE THILLIAN THE THILLIAN THE TAXAFACH THE THILLIAN THE TAXAFACH THE THILLIAN THE TAXAFACH THE THILLIAN THE TAXAFACH THE THILLIAN THE TAXAFACH THE TAXAFACH THE THILLIAN THE TAXAFACH	SAVPIAGFAUMB	IVMSTNNDE	PAGACRPEDE	DRDGFVFGF	GSALL LEFEE	TAK A DC AALT	T AD INCACTE	SIMPIMAPA-	ALLINEACHA	
Rat. Kas. PRO	ALQNAYQA I RSGECPAA I VOGINLLIK PATISVQPAKLQALSPDCTCR SFDDS; INCYCRAEAVJAVI 1 11KF SF DBB	MIVOGINELLE	CPNTSVQFMKLG	MLS	PDGTCRSFDE	SCINCYCRAE	AWAVI TKKS	TADO OF THE	TOWN I LINGS I .	SLANF HIMVAINU-	PINSERAGIIA	
RtNodE.pro	A I A SAVDQ I RLGRADA	GRADVHLAGGSDAPLTWGVLKSWEALRVLA PDT-CRPFSADRKGVVI GETARIAN FEVERALANDERNA SELECTOR STATESTORY OF LAND SELECTOR SELE	TWGVLKSWEALR	VLA	PDT-CRPFSA	DRKGVVIGE	GAGMAVI FSVE	A P P P P P P P P P P P P P P P P P P P	THE LEADER OF THE	TACK RECOVER	PSCEAQEQL	
StrepPolyk.pro	SIGNACELINECTVDANVACCVDAPIAPITVACEDAIRATSDH-NDTPETASRPESISRIKEVI, GESTA I VVI FEBEBARINDE OF I VI SIGNATURIN TO THE SEBBARINDE OF THE SIGNAL O	NHVACCVDAP1A	PITVACFDAIR	ATSDH-NDT	PETASRPESR	SRNCEVICE	GGA IVVI EFAE			GLAYDIVAPS-	I DiPEAA	
SYN KAS. pro	AIGDAFALVÇAÇYAKAHICGGTEAAITPLSYAGFASARALSFR-NDDPLHASRFETXORGFVATFEGGII II FEF EGAI ABDAN I TELEVOLTASHOVA HINTOLIK-ALGAEYAAİTAA	MICGCTEANIT	PLSYAGFASAR	ALSFR-NDD	PLHASRPFDK	DROGEVICE	3.03.11.11.55	CAL ADCART	NCR1001an	GNAYIMITGI.K-	ALCAEMAAA	ITAA 292
V.pro	CIGGSARMIAYGDADVAVAGGAEKASTENGLAGFGSAKALSTR-NDDPQKASRPMDKDBDGFVLGDGAGVLVÆEFYEHAVARGATIYAELAGFGMSGDAFSIDA FINTAFV-FICKKGATRALAMA	VMVACCAEKAST	PINGLAGFICSAK	ALSTR-NDC	PQKASRPWDK	DRDGFVLGD	GAGVLVMEEYEI	HVARGATI	(AELAGFGMS	GDAFIONTSPP-	PLXCRCATRA FIXEACAALS	1AWA 290
	•										ELMENONIES	

12-3

LVGNKK EQHEVK	470 100 470 100 470 100 470 100 100 100 100 100 100 100 100 100 1
-GONS-ELKVNSTKSMIGHLIGAAGGLEATATVKATI IHPT	MOGLEA IATVKA INTCH AGGLEA IATVKA INTCH SGCLEA IATVKA INTCH SGCLEA IATVKA INTCH SGCLEA IATVKA INTCH MOGLEA IATVKA ITTCH MOGLEA IATVKA ITTCH MOGLEA IATVCH ITTCH MOGLEA IATVCH ITTCH MOGLEA IATVCH IATCH MOGLEA IATVCH IATCH MOGLEA IATVCH IATCH MOGLEA IATVCH IATCH MOGLEA IATVCH IATCH MOGLEA IATVCH IATCH GAVES I IATVCH IATCH GAVES I IATVCH IATCH GALESVL IVLTI. HOCY GALESVL IVLTI. HOCY GALESVL IVLTI. HOCY GALESVL IVLTI. HOCY GALESVA IVLTI. HOCY GALE
LADACVSPEDVRYINAINTSTPACOLAETNAIKRV 370 380 390	1.EDAGVSPEENYI INAIMTSTI.AGDI.AEINAI IKKVF- LEDAGVSPEENYI INAIMTSTI.AGDI.AEINAI IKKVF- I.EDAGVSPEENYI INAIMTSTI.AGDI.AEINAI IKKVF- I.ADAGVSPEENYI INAIMTSTI.AGDI.AEINAI IKKVF- I.AQSGVSEENYI INAIMTSTPAGDI.AEIYQA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYQA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYQA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYCA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYCA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYCA- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.AQSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.ADSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.ADSGVSREDYNY INAIMTSTPAGDI.AEIYC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEIYC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGDI.AEITC- I.ABGGVSREDYNY INAIMTSTPAGGDA.AEITC- I.ABGGVSREDYNY INAIMTSTPAGGDA.AEITC- I.ABGGVSRESI.EYI IEAHGIGTTVANGDEETAAIRIRY- I.ABAGI.AABDI DINVANAGTSTPAGDA.AGI.AITROLO. I.ABAELNPDOVOLLANHGTGTVANGDEETAAIRIRY- I.ABAGI.AABDI DINVANAGTSTVANGDEETAAIRIRY- I.ABAGI.AABGI.AANGTGTVANGDEETAAIRIRY- I.ABAGI.AABGI.AANGTGTVANGDEETAAIRIRY- I.ABAGI.AABGI.AANGTGTVANGDEETAAIRIRY- I.ABAGI.AABAGI.ATROLOTVANAGTSTVANGDEETAAIRIRY- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGDEETAAIRIRYA- I.ABAGI.AABANGTGTVANGTATAANGTA- I.ABAGI.AABANGTGTVANGTATAAINGTATAA
	At KASI. pro Br Kas 50 pro Ch KAS I pro Cpu KAS I pro Cpu KAS I PRO cpuKASI-1. PRO HV KASIS. pro RCKAS50. pro CC KAS pro CC KAS pro CC KAS pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASIV. pro CW KASI. pro CW KASI. pro CE CASI. pro CE CA

Figure 12-4

431 429 350 429 428 420 420 420 420 420 410 410 410 410 4118

At KASI.pro	SNSFGFGGINSVVAFSAFK-P
Br Kas 50.pro	SNSFOFOGINSVVAFSAFK-P
Ch KAS I .pro	SNSFGFGGHNSVVAFSAFK-P
Ch KASI-1.pro	SNSFGFGGIINSVVAFSAFK-P
Cpu KAS I.PRO	SNSFGFGGHNSVVAFSAFK-P
cpuKASI-1.PRO	SNSFGFGGIBNSVVAFSAFK-P
Hv Kas12.pro	SNSFGFQGIINSVVVFAPFK-P
RcKas50.pro	SNSFGFTGIBNSVVAFSAFK
Cc Kas.pro	SNSFGFGGINSVVVFAPYK-P
Ch KAS IV-1.pro	CO SHSFCFCGGHNSSILFAPYN
Ch KASIV.pro	SNSFGFGGIRISSILFAPCN
Cpu KASIV.pro	SNSFGFOGINSSILFAPY I
Cw KASA-1.pro	SNSFGFOGINSS11,FAPCN-V
Cw KasA-2.pro	SNSFGFOGHNSSILFAPCN
HV KASORF22 (KAS	AS IN SNSFGFOCHINSSILFAPFK
HV KASORF25 (KAS	AS IN SNSFCFOGINSSILFAPF
RcKas46.pro	SNSFGFOGHNSSIIFAPYK
Ce.KAS.PRO	CNSFGFGATNASLILKQF.
CEM. pro	CNSFGFOGVNTSLLFKKMEGS
Ec KAS II.pro	CNSFGFGGTNGSLIF
· Ec Kasl.pro	SNSFGFGGTNATLVMRKLK-D
M. tub. KasA. pro	NNSFGFOGINVALAFGRY
M. tub. KasB. PRO	NNSFGFGGHNVAIAFGRY
Rat. Kas. PRO	-NSFGFGGANVHVILQP-NAS
RtNodE.pro	SNAFAMOGINAVLAFHQV
StrepPolyk.pro	TVGSGFGGFQSAMLLSRLE-R
SYN KAS.pro	SNSFGFOGHINTLAFIGNQ
V.pro	SNSFGFGGTNGSLLPRKAD

Fatty Acid Composition of T2 pooled seed

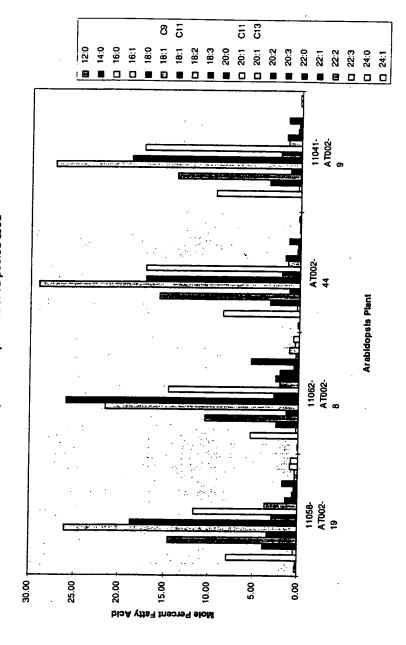


Figure 13

110 /110.

Bgl II site Sall site

Bgl II site

Figure 14